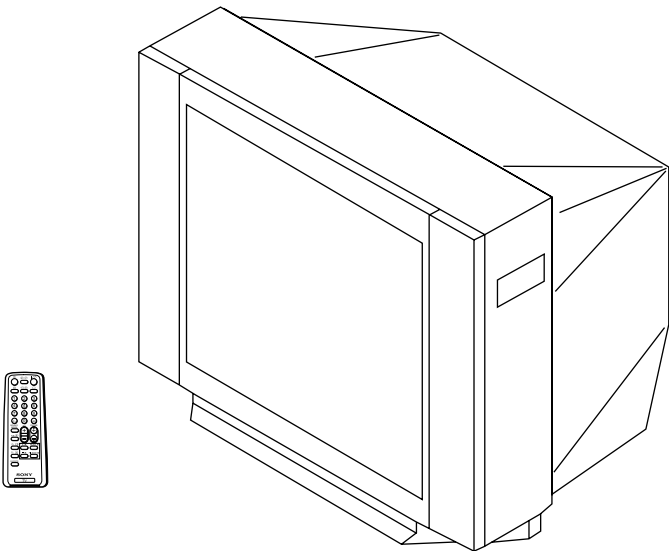


SERVICE MANUAL

BG-3R_{CHASSIS}

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-XG29M30</i>	<i>RM-952</i>	<i>Australia</i>	<i>SCC-U55A-A</i>				
<i>KV-XG29M61</i>	<i>RM-952</i>	<i>Singapore</i>	<i>SCC-U39C-A</i>				
<i>KV-XG29M80</i>	<i>RM-952</i>	<i>E</i>	<i>SCC-U53C-A</i>				



TRINITRON[®] COLOR TV
SONY[®]

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
	220-240 V AC, 50/60 Hz	KV-XG29M30
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo/Bilingual system	NICAM Stereo/Bilingual B/G, I, D/K, A2 Stereo/Bilingual (German) B/G	
Channel coverage B/G	VHF: E2 to E12 UHF: E21 to E69 CATV: S01 to S03, S1 to S41	
	VHF: 0 to 12, 5A, 19A UHF: 28 to 69 CATV: S01 to S03, S1 to S41	KV-XG29M30
I	UHF: B21 to B68 CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12 UHF: C13 to C57, R21 to R60 CATV: S01 to S03, S1 to S41, Z1 to Z39	
M	VHF: A2 to A13 UHF: A14 to A79 CATV: A-8 to A-2, A to W+4, W+6 to W+84	
⏏ (Antenna)	75-ohm external terminal	
Audio output	5W + 5W	
Number of terminal		
📺 (Video)	Input: 3* Output: 1 Phono jacks; 1 V _{P-P} , 75 ohms	* Two input lines available
🎵 Audio	Input: 3* Output: 1 Phono jacks; 500 mVrms	* Two input lines available
🎧 (Headphone)	Output: 1 Minijack	
Picture tube	29 inch	
Tube size (cm)	72	Measured diagonally
Screen size (cm)	68	Measured diagonally
Dimension (w/h/d, mm)	794 × 573 × 517	
Mass (kg)	48	

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

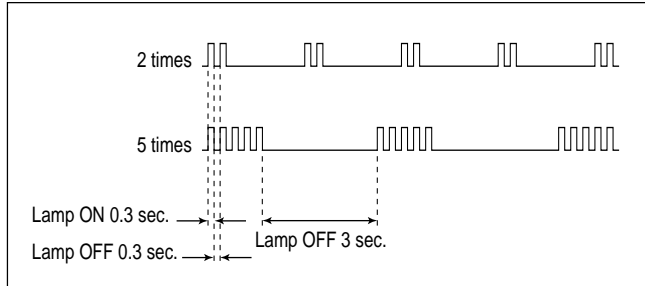
Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse is burned out F8601 (B6) 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
<ul style="list-style-type: none"> • +B overcurrent (OCP) or overvoltage (OVP) • Vertical deflection stopped • Horizontal deflection overdrive 	2 times	002:000 or 002:001~255 003:001~255 004:001~255 at the same time	<ul style="list-style-type: none"> • H.OUT Q511 is shorted. (A board) • IC1800 is shorted. (C6 board) • -13V is not supplied. (A board) • IC 503 faulty (A board) 	<ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted. • Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	<ul style="list-style-type: none"> • G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT is faulty. (C6 board) • IC301 is faulty. (A board) • No connection A board to C6 board. 	<ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small.
• Micro reset	—	101:00 or 101:001~225	<ul style="list-style-type: none"> • Discharge CRT (C6 Board) • Static discharge • External noise 	<ul style="list-style-type: none"> • Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.

The symptom that is diagnosed first by the microcontroller is displayed on the screen.

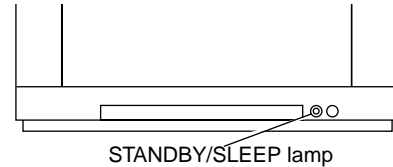
Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



Diagnostic Item	Flash Count*
+B overcurrent/overvoltage	2 times
Vertical deflection stopped	
White balance failure	5 times

* One flash count is not used for self-diagnostic.



3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as "power sometimes shuts off" or "screen sometimes goes out" that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

[To Bring Up Screen Test]

In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display → channel [5] → Sound volume [] → Power ON



Note that this differs from entering the service mode (mode volume []).

Self-Diagnosis screen display

SELF DIAGNOSTIC	
002 : 000	← Numeral "0" means that no fault has been detected.
003 : 000	
004 : 000	
005 : 001	← Numeral "1" means a fault has been detected.
101 : 000	

5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to "0".

Unless the result display is cleared to "0", the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

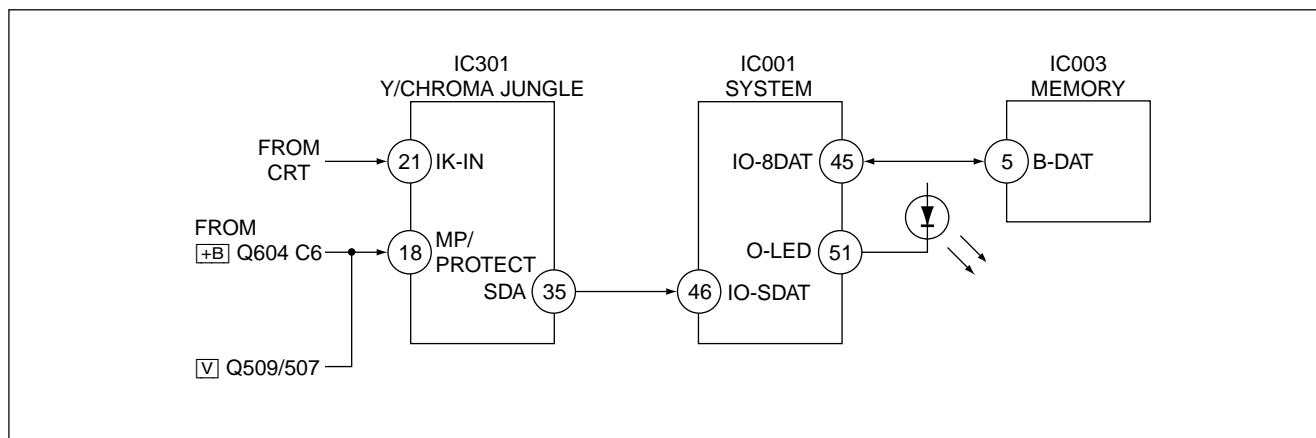
To clear the result display to "0", press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] ➡ 0

[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



[+B overcurrent (OCP)]

Occurs when an overcurrent on the +B(135) line is detected by Q604. If Q604 go to ON and the voltage to pin 18 of IC301 should go down when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.

[Vertical deflection stopped]

Occurs when an absence of the vertical deflection pulse is detected by Q509 and IC001 shut down the power supply.

[Vertical deflection overcurrent]

Occurs when an overcurrent on V drive line is detected by Q507. Power supply will be shut down when detect this by IC001.

[White balance failure]

If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301. TV will stay on, but there will be no picture.

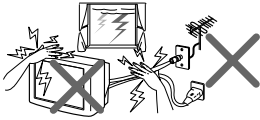

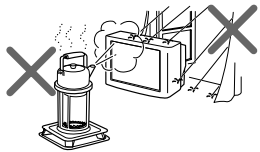
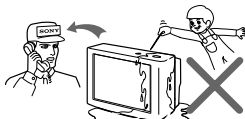
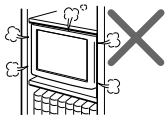
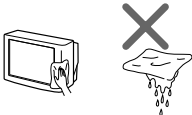
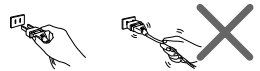

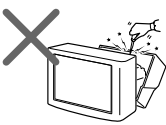
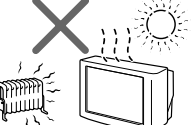
* (Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

The operating instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1
GENERAL

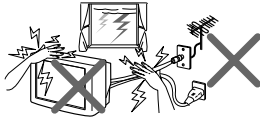

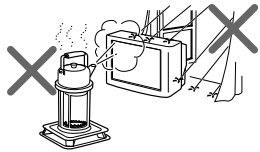
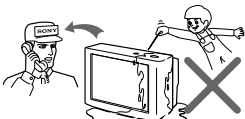
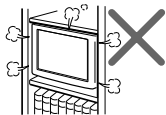
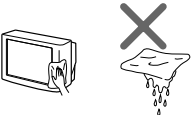
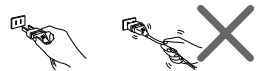

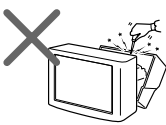
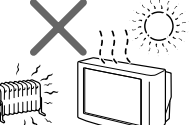
WARNING (except KV-XG29M30)

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 – 240 V AC. (For Hong Kong only: 220 – 240 V AC.)

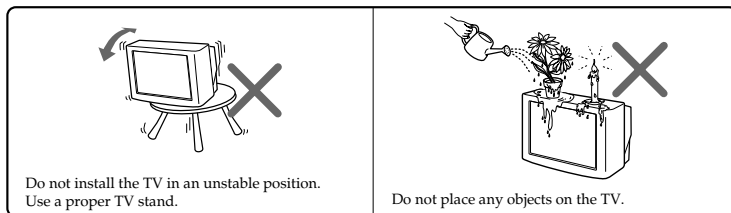
 <p>For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.</p>	 <p>For children's safety, do not leave children alone with the TV. Do not allow children to climb onto it.</p>
 <p>To prevent fire or shock hazard, do not expose the TV to rain or moisture.</p>	 <p>Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.</p>
 <p>Do not block the ventilation openings of the TV. Do not install the TV in a confined space, such as a bookcase or built-in cabinet.</p>	 <p>Clean the TV with a dry and soft cloth. Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.</p>
 <p>Pull the power cord out by the plug. Do not pull the power cord itself. Disconnect the TV before moving it or if you are not going to use it for several days.</p>	 <p>Do not plug in too many appliances to the same power socket. Do not damage the power cord.</p>
 <p>Do not open the cabinet and the rear cover of the TV as high voltages and other hazards are present inside the TV. Refer servicing and disposal of the TV to qualified personnel.</p>	 <p>Your TV is recommended for home use only. Do not use the TV in any vehicle or where it may be subject to excessive dust, heat, moisture or vibrations.</p>

WARNING (KV-XG29M30)

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 220 – 240 V AC.

 <p>For your own safety, do not touch any part of the TV, the power cord and the antenna cable during lightning storms.</p>	 <p>For children's safety, do not leave children alone with the TV. Do not allow children to climb onto it.</p>
 <p>To prevent fire or shock hazard, do not expose the TV to rain or moisture.</p>	 <p>Do not operate the TV if any liquid or solid object falls into it. Have it checked immediately by qualified personnel only.</p>
 <p>Do not block the ventilation openings of the TV. Do not install the TV in a confined space, such as a bookcase or built-in cabinet.</p>	 <p>Clean the TV with a dry and soft cloth. Do not use benzine, thinner, or any other chemicals to clean the TV. Do not scratch the picture tube.</p>
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WARNING (continued)



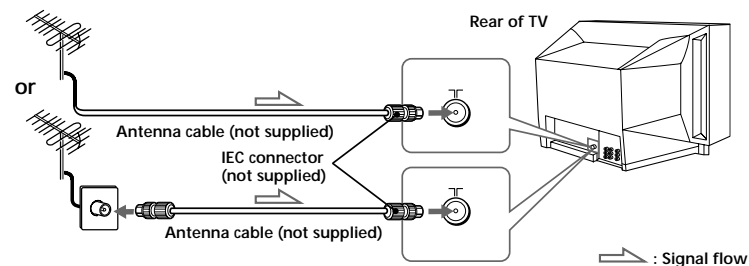
Using Your New TV

Getting Started

Step 1

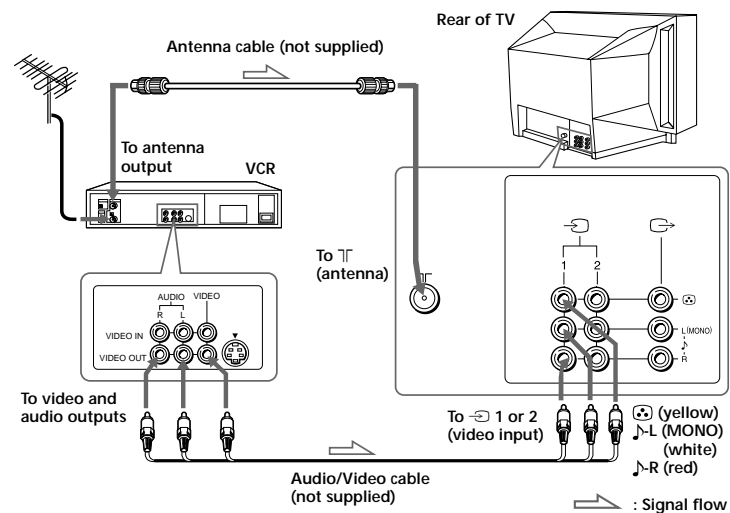
Connect the antenna

If you wish to connect a VCR, see the **Connecting a VCR** diagram below.



Connecting a VCR

To watch the video input, press (see page 12).



Notes

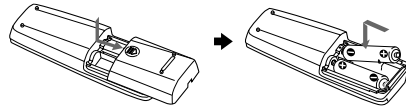
- If you connect a monaural VCR, connect the yellow plug to (the yellow jack) and the black plug to J-L (MONO) (the white jack).
- If you connect a VCR to the T (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- Do not connect video equipment to the 2 (video input) jacks at the front and the rear of your TV at the same time; otherwise the picture will not be displayed properly on the screen.
- When no signal is input from the connected video equipment, the TV screen becomes blue.

CAUTION

- Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.
- To avoid battery leakage and damage to the remote, remove the batteries from the remote if you are not going to use it for several days. If any liquid that leaks from the batteries touches you, immediately wash it away with water.

Step 2

Insert the batteries into the remote

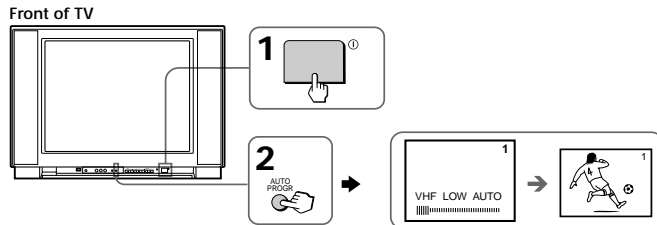


Note

- Do not use old batteries nor use different types of batteries together.

Step 3

Preset the channels automatically



Tips

- If you want to stop automatic channel presetting, press SELECT twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 9).

Note (KV-XG29M80 only)

- During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system.

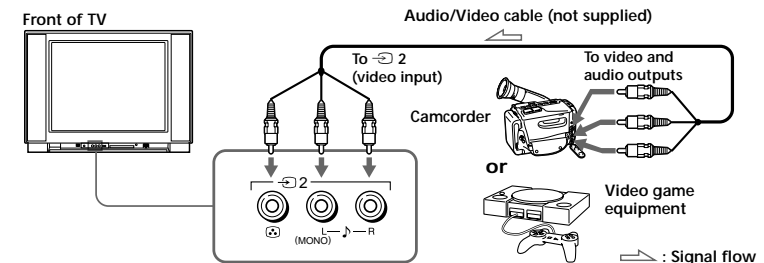
Using Your New TV | 5

Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

To watch the video input of the connected equipment, press (see page 12).

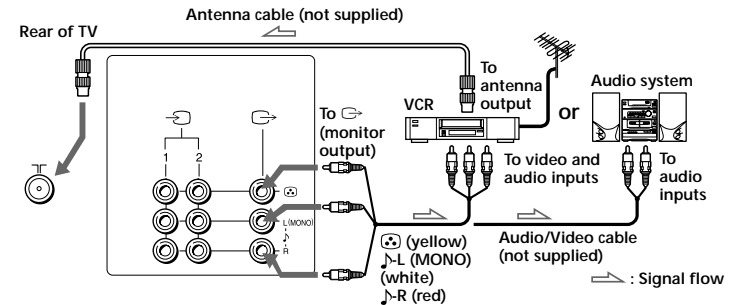
Connecting a camcorder/video game equipment using the 2 (video input) jacks



Notes

- You can also connect video equipment to the 1 or 2 (video input) jacks at the rear of your TV.
- Do not connect video equipment to the 2 (video input) jacks at the front and the rear of your TV at the same time; otherwise the picture will not be displayed properly on the screen.

Connecting audio/video equipment using the (monitor output) jacks



Note

- When connecting a monaural VCR, connect the yellow plug to (the yellow jack) and the black plug to J-L (MONO) (the white jack).

6 | Using Your New TV

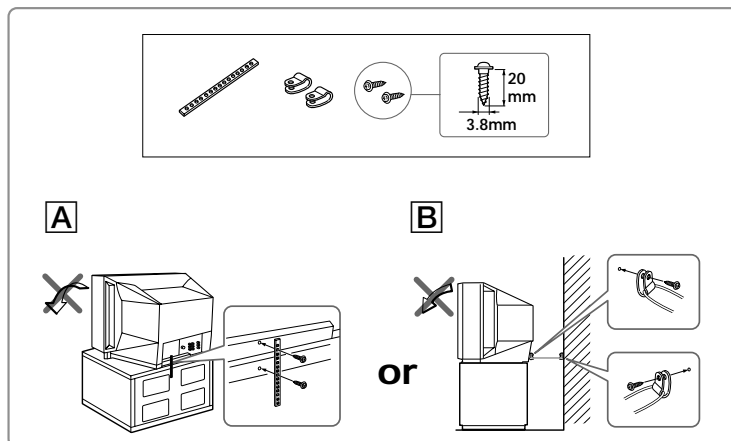
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

- A** With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

or

- B** Put the cord or chain through the clamps to secure the TV against a wall or pillar.



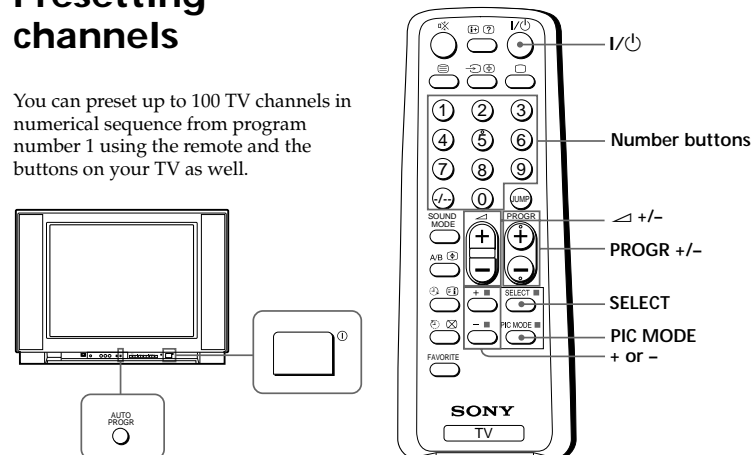
Note

- Use only the supplied screws. Use of other screws may damage the TV.

Using Your New TV

Presetting channels

You can preset up to 100 TV channels in numerical sequence from program number 1 using the remote and the buttons on your TV as well.



Presetting channels automatically

- 1** Press ① to turn on the TV.



- 2** Press AUTO PROGR.





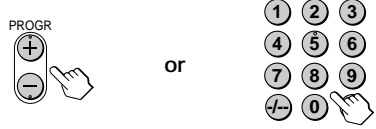
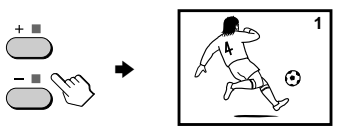

Note (KV-XG29M80 only)

- During automatic channel presetting, your TV screen will indicate "B/G", "I", "D/K" or "M" for the TV system.

To preset channels automatically from a specified program number

- Press SELECT until "AUTO PROGRAM" appears.
- Press + or -. The on-screen display will start flashing.
- Press PROGR +/- or the number buttons until the desired program number appears.
- Press + or -.

Presetting channels manually

- 1 Press SELECT until "MANUAL PROGRAM" appears.
 
- 2 Press + or -.
 
- 3 Press PROGR +/- or the number buttons until the desired program number appears.
 
- 4 Press + or - until the desired channel picture appears.
 
- 5 Press SELECT.
 

Note

- If you preset a locked program number, that particular program number will be unlocked automatically (see page 17).

To change the TV system setting

If the picture or sound is abnormal when receiving programs through the ㄗ (antenna) terminal

- (1) Press SELECT until "TV SYS" appears.

TV SYS: B/G

- (2) Press + or - to select the appropriate TV system until the picture or sound quality is optimal.

B/G → I → D/K → M

continued

Presetting channels (continued)

To change the color system setting

If the color is abnormal when receiving programs through the ㄗ (antenna) terminal or the ㄚ (video input) jack.

- (1) Press SELECT until "COLOR SYS" appears.

COLOR SYS: AUTO

AUTO → PAL → SECAM

NTSC 4.43 ← NTSC 3.58 ←

- (2) Press + or - to select the appropriate color system until the color is optimal.

Tip

- Normally set "COLOR SYS" to "AUTO".

Skipping program numbers

- 1 Press PROGR +/- or the number buttons until the unused or unwanted program number appears.
- 2 Press SELECT until "MANUAL PROGRAM" appears.
- 3 Press + or -.
- 4 Press PIC MODE.
- 5 Press SELECT.

To restore the skipped program number again

Preset the channel automatically or manually.

Tip

- You can also use SELECT and ㄠ +/- on the TV to preset channels and skip program numbers.

To use the fine tuning (FINE) function

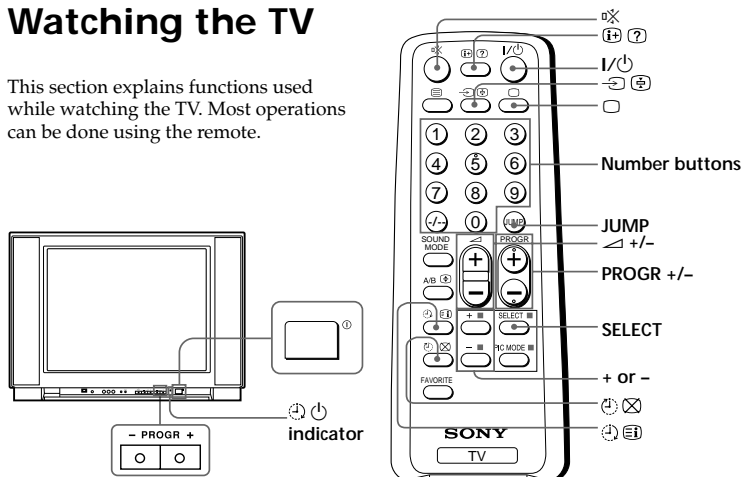
The fine tuning (FINE) function may help to reduce the following problems: incomplete Teletext display (KV-XG29M61 only), double images and lines moving across the TV screen.

You can use the fine tuning function as below:

- (1) Select the program number you want to adjust.
- (2) Press SELECT until "MANUAL PROGRAM" appears on the screen.
- (3) Press + or - on the remote control once.
- (4) Press ㄠ to display "FINE" on the screen.
- (5) Press + or - continuously until the above problems are minimized. The + or - icon on the screen flashes while tuning.
- (6) Press SELECT to return to normal screen.

Watching the TV

This section explains functions used while watching the TV. Most operations can be done using the remote.



Using Your New TV

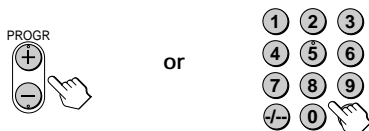
1 Press ① to turn on the TV.

When the TV is in the standby mode (the ① indicator on the TV is lit red), press I/⏻ on the remote or PROGR +/- on the TV.



2 Press PROGR +/- or the number buttons to select the program number.

For double digit numbers, press -/+, then the number (e.g., for 25, press -/+, then 2 and 5).



3 Press ② +/- to adjust the volume.



Watching the TV (continued)

Additional tasks

To	Press
Turn off temporarily	I/⏻. The ① indicator on the TV lights up red.
Turn off completely	① on the TV.
Mute the sound	Mute.
Watch the video input (VCR, camcorder, etc.)	⑤ to select "VIDEO 1" or "VIDEO 2". To return to the TV program, press ①.
Jump back to the previous program number	JUMP.
Display the on-screen information*	③.
Adjust the volume of all program numbers automatically	SELECT repeatedly until "INTELLIGENT VOL" appears, then press + or - to select "ON". To cancel, select "OFF".
Adjust the picture position when it is not aligned to the TV screen	SELECT repeatedly until "PIC ROTATION" appears, then press + or - to adjust the alignment of the picture position.

PIC ROTATION ③ ④ ⑤ ⑥

The ④ or ⑤ icon on the screen flashes while adjusting.

* The picture, sound, and either the program number or video input are displayed. The on-screen display for the picture and sound information disappears after about three seconds.

Changing the on-screen display language

1 Press SELECT until "LANGUAGE / 语言: ENGLISH" appears on the screen.



2 Press + or - to select "中文".



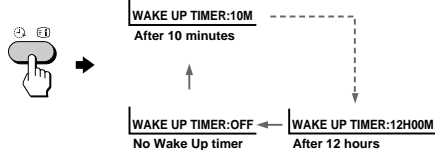
Tip

- You can also use SELECT and ② +/- on the TV to select the on-screen display language.

continued

Setting the Wake Up timer

- Press until the desired period of time appears.
The Wake Up timer starts immediately after you have set it.
- Select the program number or video input you want to display when you wake up.
- Press or set the Sleep timer if you want the TV to turn off automatically.
The indicator on the TV lights up orange.



To cancel the Wake Up timer

Press until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

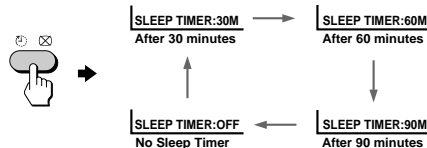
Note

- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press until the desired period of time appears.

The Sleep timer starts immediately after you have set it.



To cancel the Sleep timer

Press until "SLEEP TIMER: OFF" appears or turn the TV off.

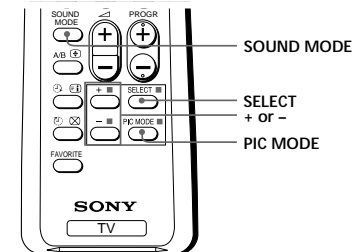
Using Your New TV

Advanced Operations

Customizing the picture and sound

You can customize the picture and sound by selecting the picture and sound modes or by adjusting its settings.

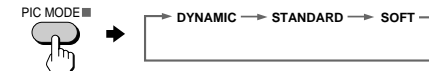
You can change the sound effect by selecting the surround mode.



Selecting the picture and sound modes

To select the picture mode

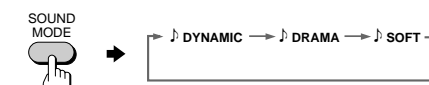
Press PIC MODE repeatedly until you get the desired picture mode.



Select	To
"DYNAMIC"	receive high contrast pictures.
"STANDARD"	receive normal contrast pictures.
"SOFT"	receive mild pictures.

To select the sound mode

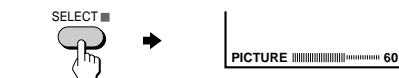
Press SOUND MODE repeatedly until you get the desired sound mode.



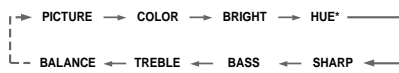
Select	To
"DYNAMIC"	listen to dynamic and clear sound that emphasizes the low and high sound.
"DRAMA"	listen to sound that emphasizes vocals and background music.
"SOFT"	receive soft sound.

Adjusting the picture and sound settings

- 1 Press SELECT until the desired setting appears.



Each time you press SELECT, the setting item will change as follows:



- 2 Press + or – to adjust the item.



- 3 To adjust other items, repeat steps 1 to 2.

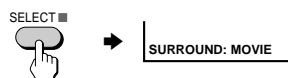
* "HUE" can be adjusted for the NTSC system only.

Notes

- When you select a picture or sound mode, the adjusted settings will be reset according to the selected mode.
- You can also use SELECT and Δ +/- on the TV to adjust the picture and sound settings.

Selecting the surround mode

- 1 Press SELECT repeatedly until "SURROUND" appears.



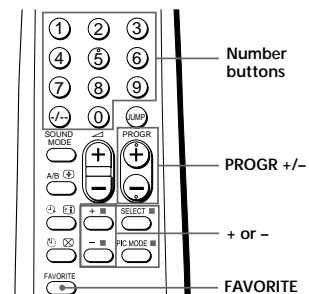
- 2 Press + or – to select the desired surround sound.



Select	To
"MOVIE"	listen to sound that spreads out over a large area, giving the feeling of being at a movie theatre.
"MUSIC"	listen to the sound that gives the feeling of being at a live concert.
"OFF"	turn off the surround sound.

Viewing your favorite channels

You can display six of your favorite channels for quick and easy selection. You can program the favorite channel as well.

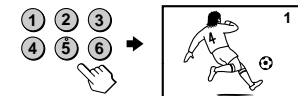


Selecting a favorite channel

- 1 Press FAVORITE.



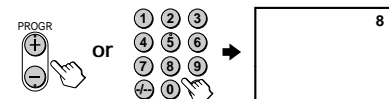
- 2 Press the number button from 1 to 6 to select the desired favorite channel.



When you use the "FAVORITE CH" feature for the first time, six preset channels will appear.

Programming the favorite channel

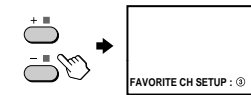
- 1 Press PROGR +/- or number buttons to select the program number you want to program (e.g. program number 8).



- 2 Press SELECT until "FAVORITE CH SETUP" appears.



- 3 Press + or – to select the favorite channel you want to program (e.g. ③).



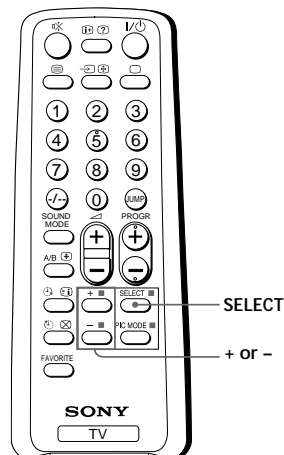
- 4 Press SELECT. The selected favorite channel (e.g., ③) turns red for about one second.



- 5 To program other favorite channels, repeat steps 1 to 4.

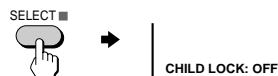
Blocking the channels (CHILD LOCK)

You can lock some program numbers to prevent children from watching certain channels, by using the buttons on the remote control.





1 Select the program number you want to lock.

2 Press SELECT until "CHILD LOCK" appears on the screen.



3 Press + or - to select "ON".

The  symbol appears on the screen.

To cancel, press + or - to select "OFF". The  symbol disappears from the screen.



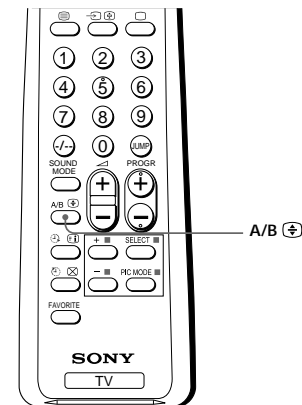
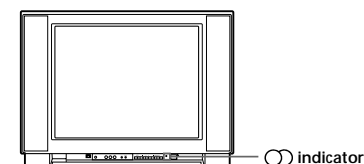
Note

- If you preset a locked program number, that particular program number will be unlocked automatically (see page 8).

Enjoying stereo or bilingual programs


(KV-XG29M61 only)

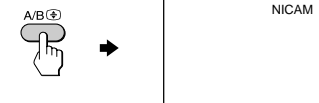
You can enjoy stereo sound or bilingual programs of NICAM and A2 stereo systems.



Press A/B repeatedly until you receive the sound you want.

The on-screen display changes to show the selected sound.

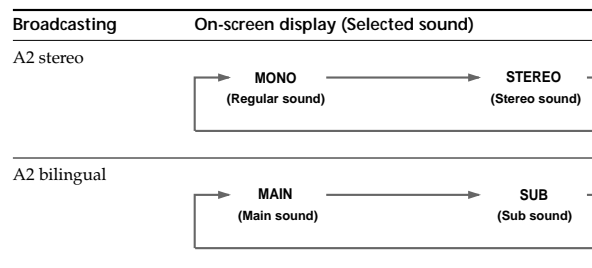
The  indicator on the TV lights up red when receiving any stereo or bilingual program.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)	
NICAM stereo	NICAM (Stereo sound)	MONO (Regular sound)
	→	
NICAM bilingual	NICAM MAIN (Main sound)	NICAM SUB (Sub sound)
	→	MONO (Regular sound)
	→	
NICAM monaural	NICAM MAIN (Main sound)	MONO (Regular sound)
	→	

When receiving an A2 program



Receiving area for NICAM and A2 programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2	Australia, Malaysia, Thailand, etc.

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO". The sound becomes monaural, but the noise is reduced.
- Before receiving a NICAM stereo program in China, please check the NICAM broadcast condition at your area. When receiving a NICAM stereo program, the receiving conditions might vary depending on area. In addition, different strength of the NICAM broadcast signal might affect the receiving quality.

If the sound is distorted when receiving a monaural program through the ㄿ (antenna) terminal

Press A/B repeatedly until "MONO" appears on the screen.

To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.



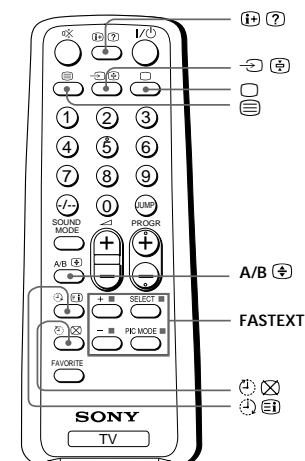
Notes

- The "MONO" or "AUTO" setting is memorized for each program number.
- You cannot receive stereo broadcast signal when the TV is in the "MONO" setting. Normally set the TV to "AUTO".

Viewing Teletext

(KV-XG29M61 only)

TV stations broadcast an information service called Teletext via some TV channels. Teletext allows you to receive various information, such as shares market or news.

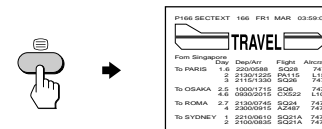


Displaying Teletext

1 Select a TV channel that carries the Teletext broadcast you want to watch.

2 Press ㄿ to display the text.












A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100" is displayed at the top left corner of the screen.



To turn off Teletext





Press ㄿ.

Additional Teletext tasks

To	Do this
display a Teletext page on the TV picture	Press  . Each time you press  , the screen changes as follows: Teletext → Teletext and TV → TV.
check the contents of a Teletext service	Press  . An overview of the Teletext contents and page numbers appear on the screen.
select a Teletext page	Press the number buttons to enter the three-digit page number of the desired Teletext page. * If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR +/-.
Hold (pause) a Teletext display	Press  to display the symbol "Ⓢ" at the top left corner of the screen. To resume normal Teletext operation, press  or  .
reveal concealed information (e.g., an answer to a quiz)	Press  . To conceal the information, press the button again.
enlarge the Teletext display	Press  . Each time you press  , the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size.
wait for a Teletext page while watching a TV program	<ol style="list-style-type: none"> 1 Enter the Teletext page number that you want to refer to, then press . 2 When the page number is displayed, press  to show the text.

* You can also select a Teletext page that appears in the colored column at the bottom of the screen using the corresponding color-coded button on the remote.

Using FASTEXT



This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcasted, the colored menus appear at the bottom of the screen. The colors of the menus correspond to the red , green , yellow , and blue  color-coded buttons on the remote.

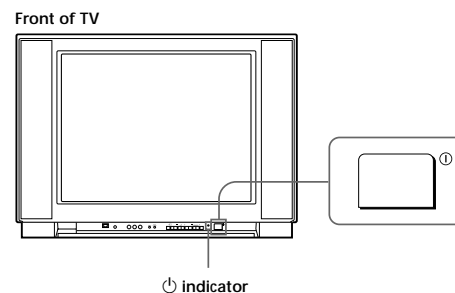
To access a FASTEXT menu





Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after several seconds.

Additional Information

Self-diagnosis function

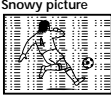





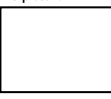

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the  indicator flashes red. The number of times the  indicator flashes indicates the possible causes.



- 1 Check that the  indicator flashes red a number of times between 3-second intervals.
- 2 Count the number of times the  indicator flashes.
- 3 Press  (main power) to turn off your TV.
- 4 Inform your nearest Sony service center about the number of times the  indicator flashes. Be sure to note the model name and serial number located on the rear of your TV.


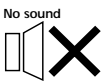




Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer.


Symptom	Possible cause	Solutions	Page
Snowy picture 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. Channel presetting is inappropriate or incomplete. 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and on the wall. Press SELECT until "MANUAL PROGRAM" appears on the screen, then preset the channel again. 	4 9
Noisy sound 	<ul style="list-style-type: none"> The antenna type is inappropriate. The antenna direction is inappropriate. Signal transmission is low. 	<ul style="list-style-type: none"> Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. 	– – –
Distorted picture 	<ul style="list-style-type: none"> Broadcast signals are too strong. 	<ul style="list-style-type: none"> Turn off or disconnect the booster if it is in use. 	–
Noisy sound 			
Good picture 	<ul style="list-style-type: none"> The TV system setting or channel presetting is inappropriate or incomplete. 	<ul style="list-style-type: none"> If the sound of all the channels are noisy, check the TV system (TV SYS) setting, then press AUTO PROGR to preset the channels again. If the sound of some channels are noisy, select the channel, then select the appropriate TV system (TV SYS). 	8 9
Noisy sound 	<ul style="list-style-type: none"> The selected sound is inappropriate. 	<ul style="list-style-type: none"> If the sound of some channels are noisy, select the channels, then press A/B to select the main sound (KV-XG29M61 only). 	18
No picture 	<ul style="list-style-type: none"> The power cord, antenna or VCR is not connected. The TV is not turned on. 	<ul style="list-style-type: none"> Check the power cord, antenna and the VCR connections. Press I/⏻ (power). Press ① (main power) on the TV to turn off the TV for about five seconds, then turn it on again. 	4 12 11
No sound 			

continued

Troubleshooting (continued)

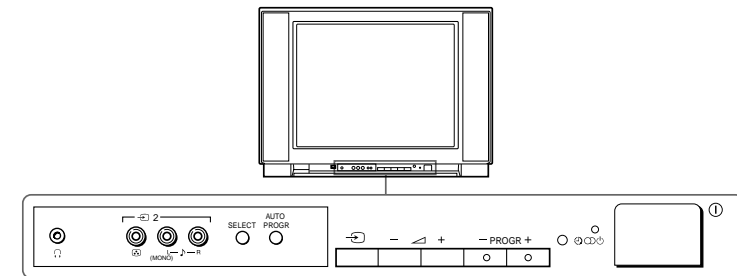
Symptom	Possible cause	Solutions	Page
Good picture 	<ul style="list-style-type: none"> The volume level is too low. The sound is muted. Broadcast signal has a transmission problem. 	<ul style="list-style-type: none"> Press ◀+ to increase the volume level. Press ⏻ to cancel the muting. Press A/B until a better sound is heard (KV-XG29M61 only). 	11 12 18
No sound 			
Dotted lines or stripes 	<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc. 	<ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	– –
Double images or "ghosts" 	<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction is inappropriate. Use of a booster is inappropriate. 	<ul style="list-style-type: none"> Use a highly directional antenna. Use the fine tuning (FINE) function. Adjust the antenna direction. Contact a Sony dealer for advice. Turn off or disconnect the booster if it is in use. 	– 10 – –
No color 	<ul style="list-style-type: none"> The color level setting is too low. The color system setting is inappropriate. The antenna direction is inappropriate. 	<ul style="list-style-type: none"> Press SELECT until "COLOR" appears on the screen, then press + or – to adjust the color level. Press SELECT until "COLOR SYS" appears on the screen, then check the color system setting (usually set this to "AUTO"). Adjust the antenna direction. Contact a Sony dealer for advice. 	15 10 –
Abnormal color patches 	<ul style="list-style-type: none"> The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV. 	<ul style="list-style-type: none"> Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press ① (main power) on the TV to turn off the TV for about five minutes, then turn it on again. 	–
TV cannot receive stereo broadcast signal (KV-XG29M61 only)	<ul style="list-style-type: none"> The stereo reception setting is inappropriate. 	<ul style="list-style-type: none"> Press A/B until "AUTO" appears on the screen. 	18

Additional Information

Symptom	Possible cause	Solutions	Page
Stereo broadcast sound switches on and off or is distorted. OR The sound switches between monaural and stereo frequently. (KV-XG29M61 only)	• Connection is loose or the cable is damaged.	• Check the antenna cable and connection on the TV, VCR and on the wall.	4
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Broadcast signal has a transmission problem.	• Press A/B until a better sound is heard.	18
"100" appears on the top of the screen and there is no Teletext display. (KV-XG29M61 only)	• The channel carries no Teletext broadcast.	—	20
Teletext display is incomplete (snowy picture or double images). (KV-XG29M61 only)	• Connection is loose or the cable is damaged.	• Check the antenna cable and connection on the TV, VCR, and at the wall.	4
	• The antenna direction is inappropriate.	• Adjust the antenna direction. Contact a Sony dealer for advice.	–
	• Signal transmission is too low.	• Try using a booster. • Use the fine tuning (FINE) function.	– 10
Picture slant 	• The magnetic disturbance from external speakers or other equipment, or the direction of the earth's magnetic field may affect the TV.	• Keep external speakers or other electrical equipment away from the TV.	–
		• Press SELECT until "PIC ROTATION" appears on the screen, then press + or – to align the picture to the TV screen.	12
Lines moving across the TV screen.	• There is interference from external sources, e.g., heavy machineries, nearby broadcast station.	• Use the fine tuning (FINE) function.	10
The indicator on your TV flashes red a number of times between 3-second intervals.	• Your TV may need service.	• Contact your nearest Sony service center.	22
TV cabinet creaks.	• Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.	—	–
A "boom" sound is heard when the TV is turned on.	• The TV's demagnetizing function is working. This does not indicate a malfunction.	—	–

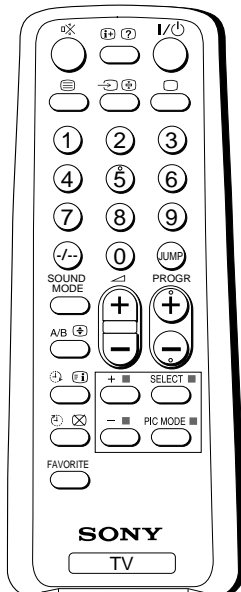
Overview of controls

TV front panel



Button	Function	Page
AUTO PROGR	Preset channels automatically.	5
SELECT	Select the desired item.	10
PROGR +/-	Select program number.	11
①	Turn off completely or turn on the TV.	11
△ +/-	Adjust volume.	11
⏻	Standby indicator.	11
↺	Select TV or video input.	12
⌚	Wake Up indicator.	13
⦿ (except KV-XG29M80 only)	Stereo/bilingual indicator.	18
🎧	Headphone jack.	–

Remote Control



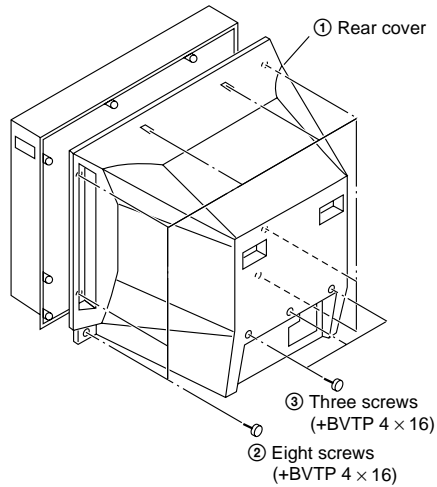
The names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

Label color	Button function
White	For general TV operations
Green	For Teletext operations

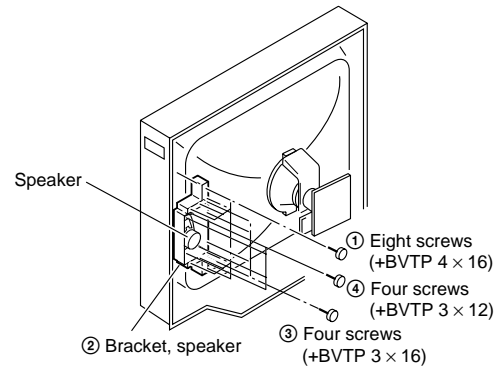
Button	Function	Page
SELECT	Select the desired item.	9
+/-	Adjust value.	9
PROGR +/-	Select program number.	11
0 - 9, -/--	Input numbers.	11
△ +/-	Adjust volume.	11
I/⏻	Turn off temporarily or turn on the TV.	11
⏮	Select TV or video input.	12
□	Display the TV program.	12
⏸	Mute the sound.	12
ⓘ	Display on-screen information.	12
JUMP	Jump to previous program number.	12
Timer operations		
⌚	Set TV to turn on automatically.	13
⌚	Set TV to turn off automatically.	13
PIC MODE	Select picture mode.	14
SOUND MODE	Select sound mode.	14
FAVORITE	Display favorite channels.	16
Stereo/bilingual operations (except KV-XG29M80)		
A/B	Select stereo/bilingual mode.	18
Teletext operations (KV-XG29M61 only)		
⏴	Display Teletext broadcast.	20
⏴	Display Teletext service contents.	21
⏴	Stop teletext page from scrolling.	21
?	Reveal concealed information.	21
⏴	Enlarge the Teletext display.	21
⊗	Show TV screen while waiting for Teletext page.	21
■ (red, green, yellow, blue)	Access a FASTEXT menu	21

SECTION 2 DISASSEMBLY

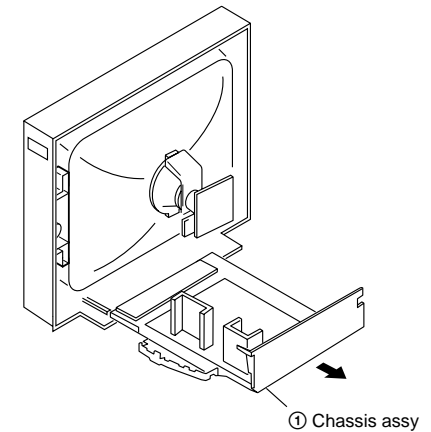
2-1. REAR COVER REMOVAL



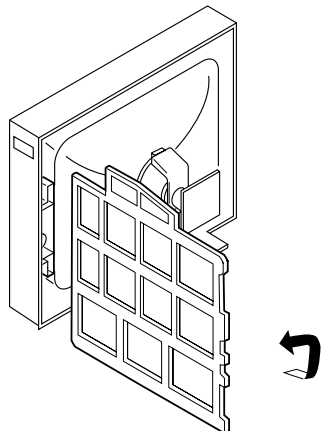
2-2. SPEAKER REMOVAL



2-3. CHASSIS ASSY REMOVAL



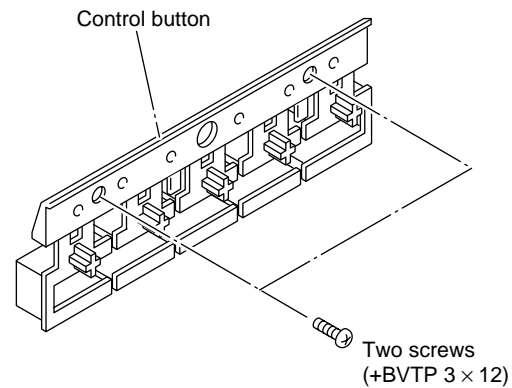
2-4. SERVICE POSITION



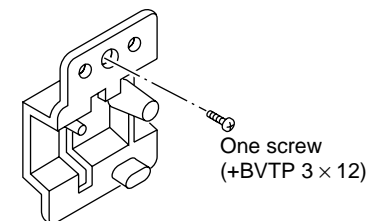
2-5. REPLACEMENT OF PARTS

For replacement of the Control Button and Light Guide, unscrew them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

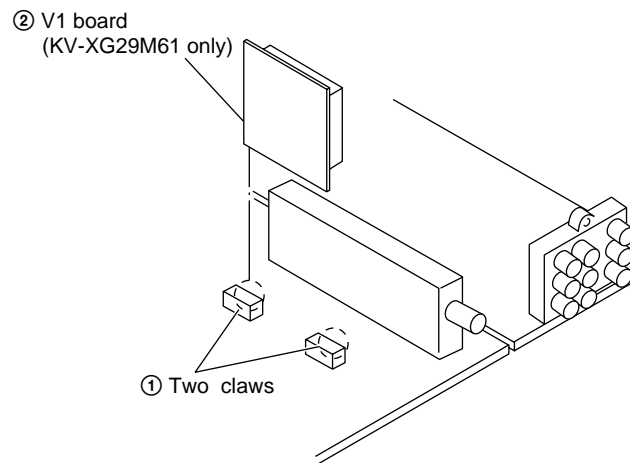
2-5-1. REPLACEMENT OF CONTROL BUTTON



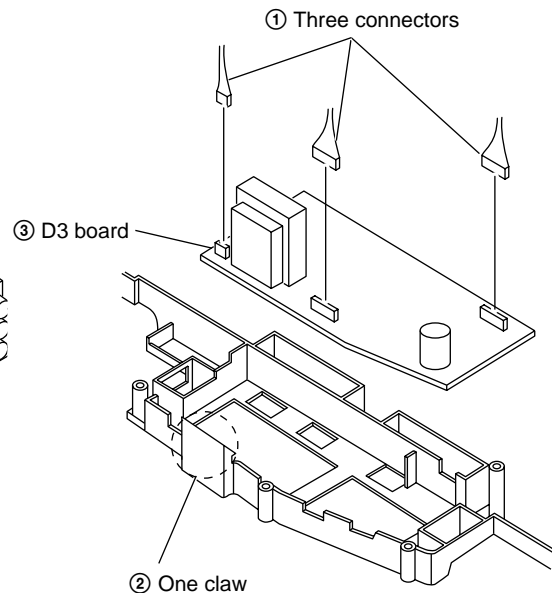
2-5-2. REPLACEMENT OF LIGHT GUIDE



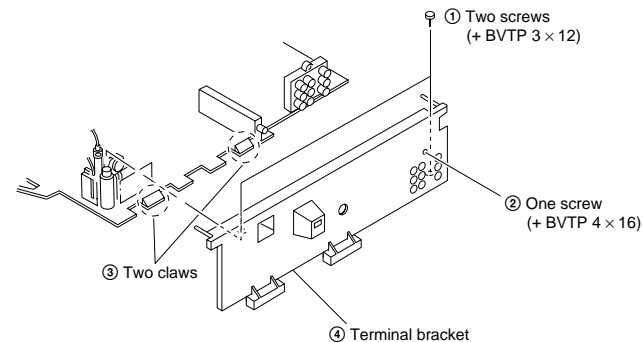
2-6. V1 BOARD REMOVAL



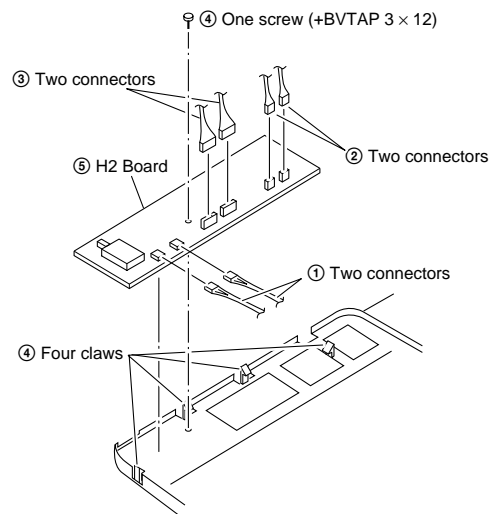
2-7. D3 BOARD REMOVAL



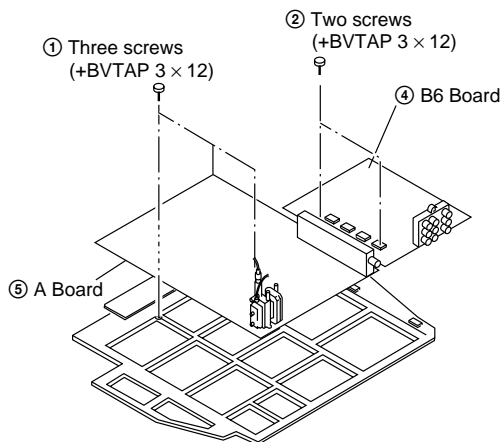
2-8. TERMINAL BRACKET REMOVAL



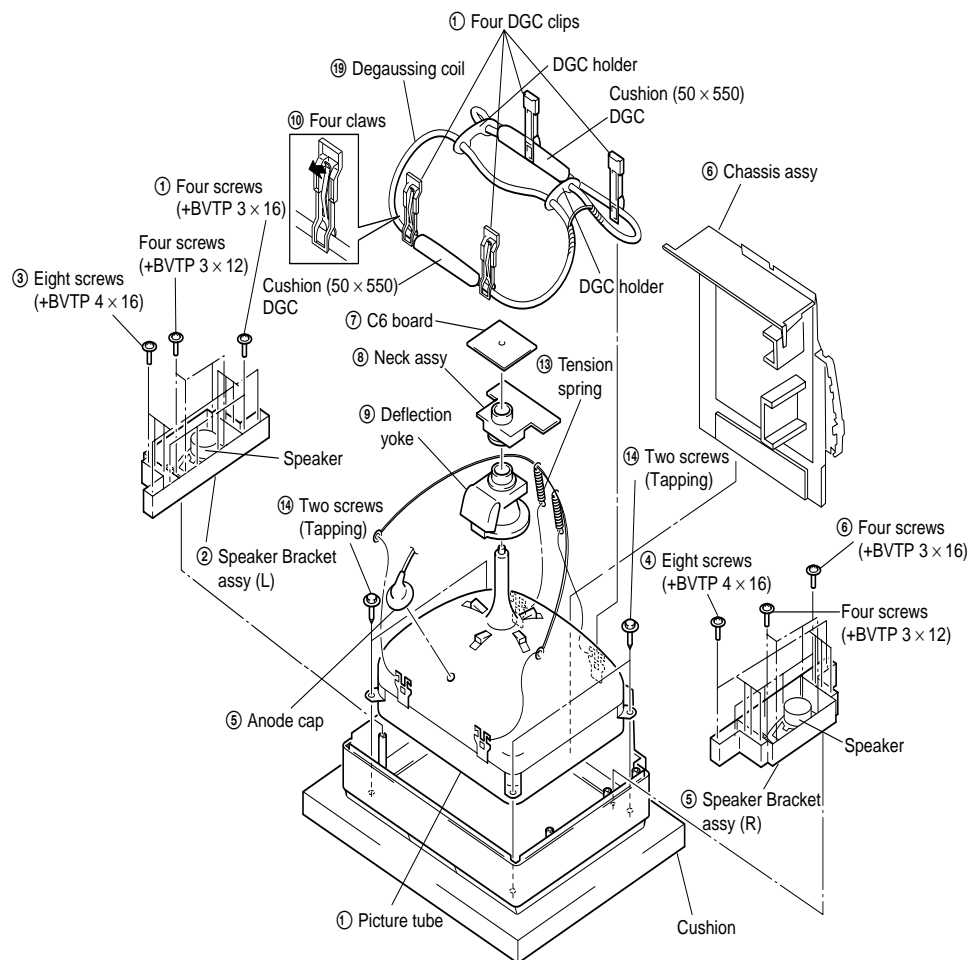
2-9. H2 BOARD REMOVAL



2-10. A AND B6 BOARDS REMOVAL



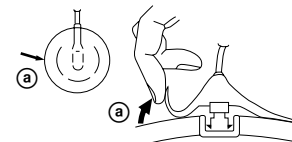
2-11. PICTURE TUBE REMOVAL



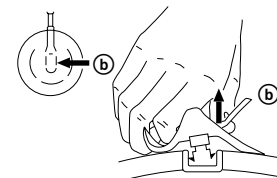
•REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

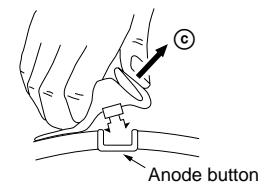
•REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow (a).



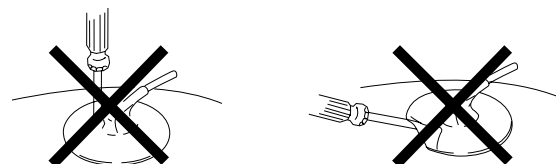
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow (b).



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c).

• HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control normal

BRIGHTNESS control normal

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.
Contrast } normal
Brightness }
2. Position neck assy as shown in Fig3-2.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
(See Figures 3-1 through 3-4.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-2.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-5.)

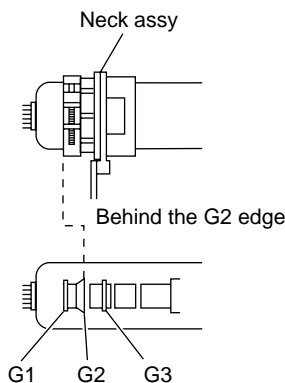


Fig. 3-1

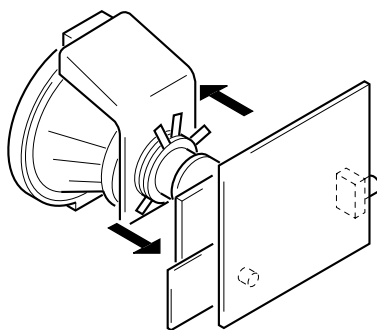


Fig. 3-2

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

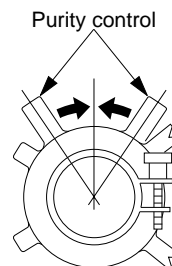


Fig. 3-3

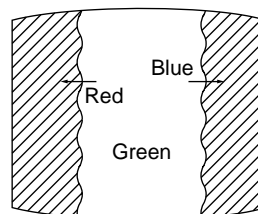


Fig. 3-4

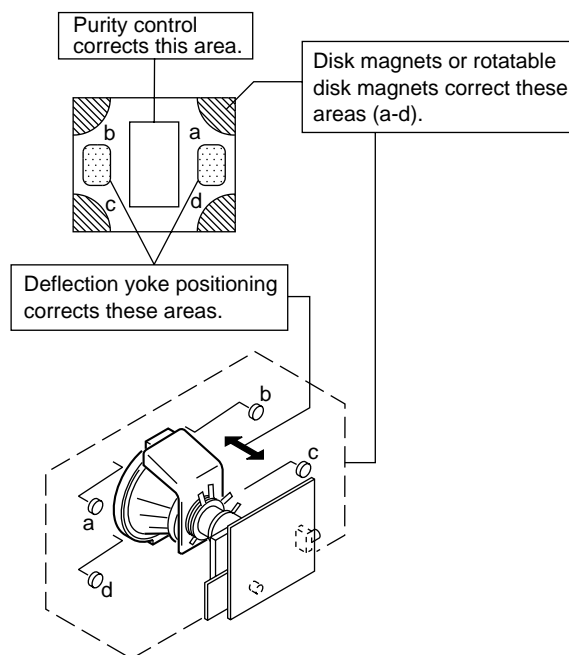


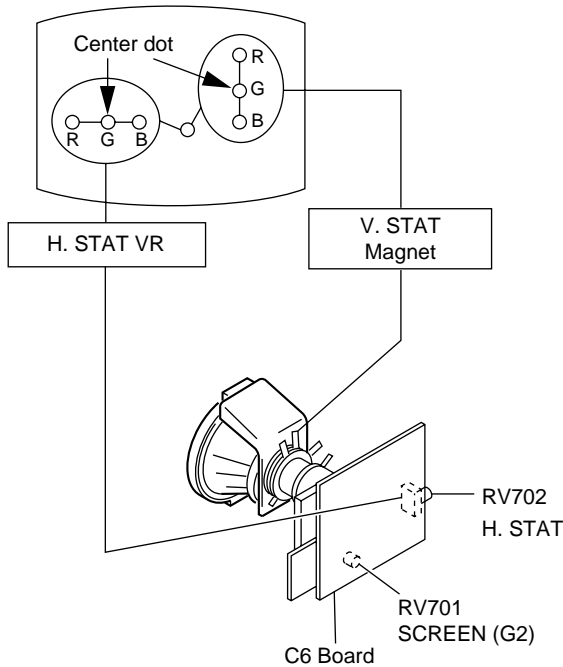
Fig. 3-5

3-2. CONVERGENCE

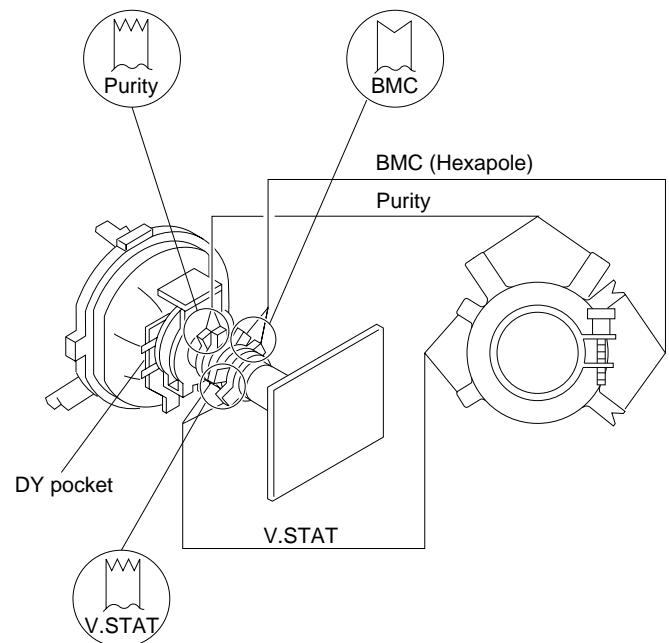
Preparation :

- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Receive dot/hatch signal.
- Pic mode: Personal (Pic 90%, Brightness 50%, Col 50%, Hue 50%, Shp 50%)

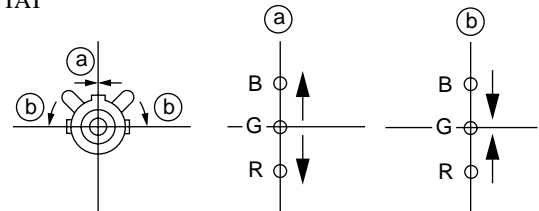
(1) Horizontal and Vertical Static Convergence



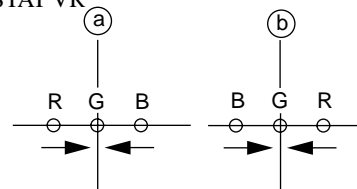
1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)



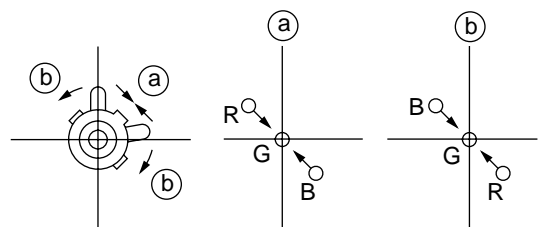
① V. STAT



② H. STAT VR

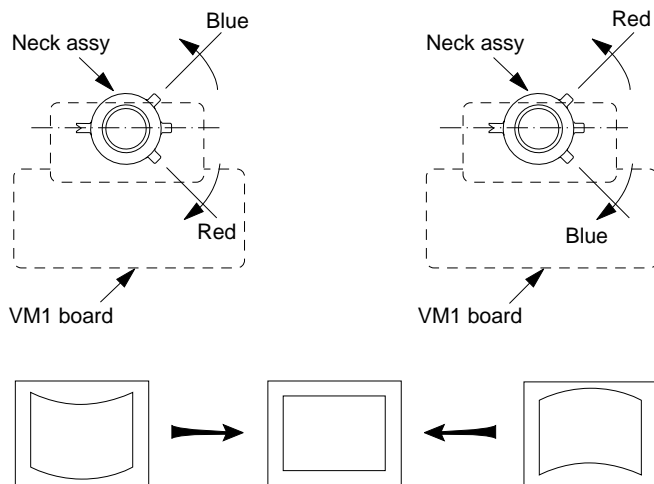
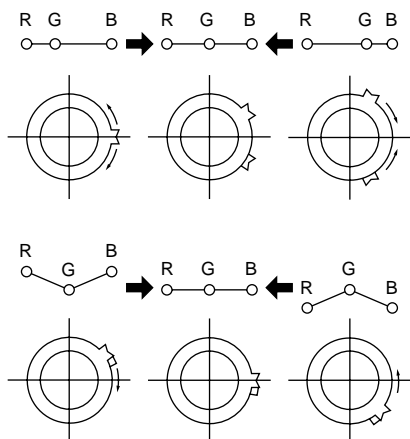


③



④ BMC (Hexapole) Magnet.

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

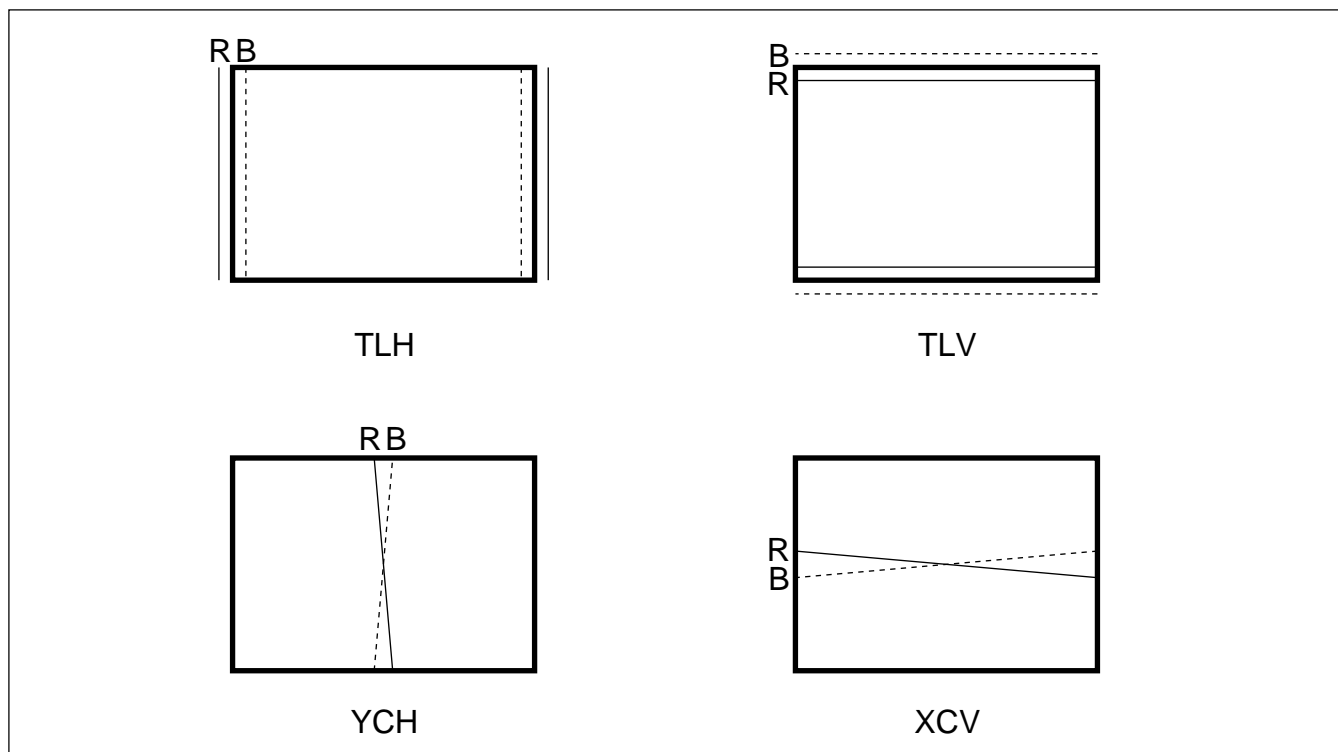
⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.

(2) Dynamic Convergence Adjustment

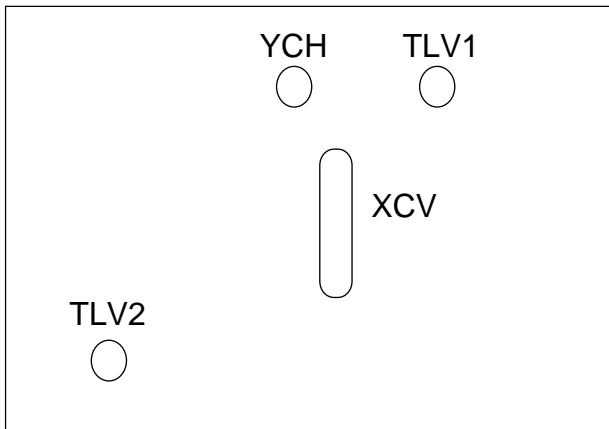
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence

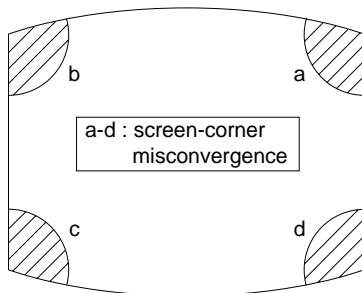


TLV	Rotate	TLV-2	VOL (29", 34") on DY
XCV	Rotate	XCV	Adj core on DY
YCH	Rotate	YCH	VOL on DY
TLH	Insert	TLH	Correction Plate to DY Pocket (Left or Right)

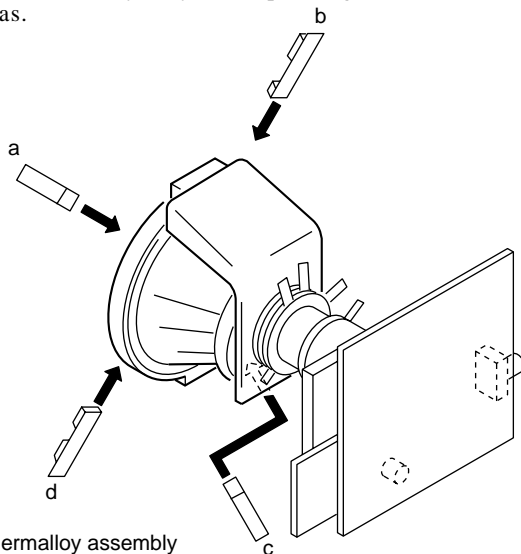
ON DY:



(3) Screen-corner Convergence

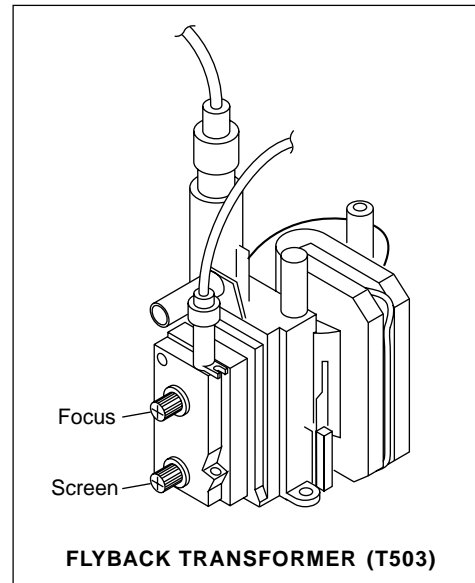


Fix a Permalloy assy corresponding to the misconverged areas.



3-3. FOCUS ADJUSTMENT

Focus adjustment should be completed before W/B adjustment.



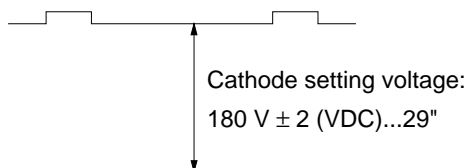
FOCUS ADJUSTMENT

- 1) Receive digital monoscope pattern.
- 2) Set "AV CONTROL" to "DYNAMIC"
- 3) a) Adjust FOCUS VR so that center of the screen becomes just focus.
- 4) Change the receiving signal to white pattern and blue back.
- 5) Confirm MAGENTA RING is not noticeable,
Incase magenta is very obvious, adjust a FOCUS VR to take balance between MAGENTA RING and FOCUS.

3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C6 board cathode to the oscilloscope.
- 4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
- 5) Adjust G2 (screen) on the FBT until picture shows the point before cut off.

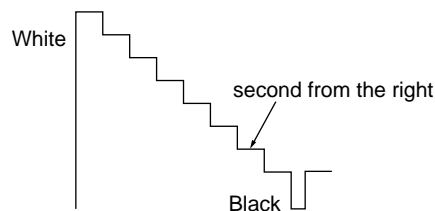


2. WHITE BALANCE ADJUSTMENT

- 1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- 3) Set the PICTURE to minimum.
- 4) Select GCT (WHB 4) and BCT (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 1) and BDR (WHB 2) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 7) Write into the memory by pressing [MUTING] then [0].

3. SUB BRIGHT ADJUSTMENT

- 1) Set to service mode.
- 2) Input a staircase signal of black to white from the pattern generator.
- 3) BRIGHTNESS 50%.
PICTURE MINIMUM
- 4) Select SBR (WHB7) with [1] and [4], and adjust SBR (WHB7) level with [3] and [6] so that the second stripe from the right is dimly lit.



SECTION 4

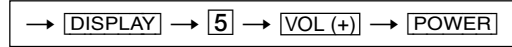
CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments to this model can be performed using the supplied Remote Commander RM-952.

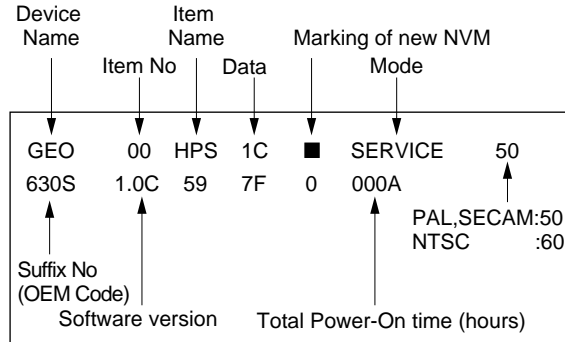
a. ENTERING SERVICE MODE

With the unit on standby



This operation sequence puts the unit into service mode.

The screen display is :



b. METHOD OF CANCELLATION FROM SERVICE MODE

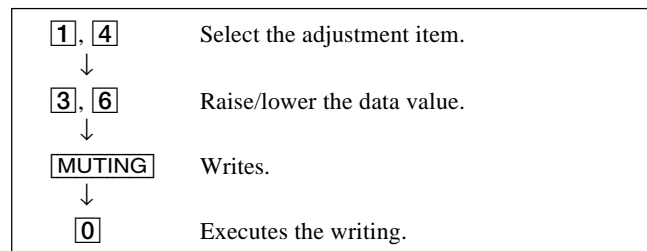
Set the standby condition (Press **POWER** button on the commander), then press **POWER** button again, hereupon it becomes TV mode.

c. METHOD OF WRITE INTO MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), to select the adjustment.
- 4) Press **MUTING** button to indicate WRITE on the screen.
- 5) Press **0** button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.



7, 0 All the data becomes the values in memory.

8, 0 All user control goes to the standard state.

5, 0 Service data initialization (Be sure not to use usually.)

MUTING + 0 Write 50Hz adjustment data to 60Hz, or vice versa.

2, 0 Copy the data.

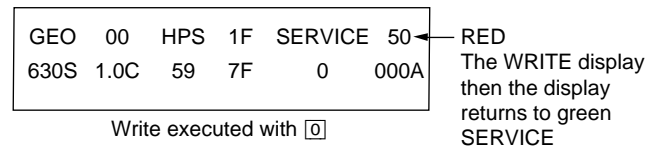
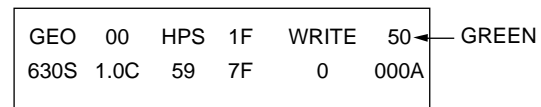
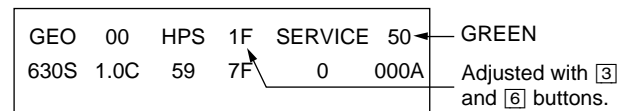
4-2. ADJUSTMENT METHOD

Item Number 00 of device GEO

This explanation uses H-Position as an example.

1. Select "GEO 00 HPS" with the **1** and **4** buttons.
2. Raise/lower the data with the **3** and **6** buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the **MUTING** button. (The display changes to WRITE.)
5. Execute the writing with the **0** button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)

Example on screen display :-



Use the same method for all Items. Use **1** and **4** to select the adjustment item, use **3** and **6** to adjust, write with **MUTING**, then execute the write with **0**.

- Note :**
1. In **WRITE**, the data for all items are written into memory together.
 2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table & Note	Device Name Slava Address	RAM Address (Bit Range)
Category	No.	Name						
GEO	00	HPS	7	3F	H Position	50/60Hz	CXA2159S (88H)	1E/16
	01	HSZ	1F	3F	H Size	50/60Hz		1F
	02	PAP	1F	3F	Pin Amp	50/60Hz		1F
	03	TLT	7	0F	Trapezium	50/60Hz		07
	04	VPS	1F	3F	V Position	50/60Hz		1F
	05	VSZ	1F	3F	V size	50/60Hz		1F
	06	SCO	7	0F	S Correction	50/60Hz		07
	07	VLN	7	0F	V Linearity	50/60Hz		07
	08	BOW	7	0F	AFC Bow	50/60Hz		07
	09	AGL	7	0F	AFC Angle	50/60Hz		07
	0A	UPN	1F	3F	Upper Pin	50/60Hz		1F
	0B	LPN	2F	3F	Lower Pin	50/60Hz		1F
	0C	HBL	01	1	H Blanking on/off			01
	0D	LBL	0F	0F	Left H Blanking	50/60Hz		0F/0B
	0E	RBL	02	0F	Right H Blanking	50/60Hz		02
WHB	00	RDR	25	3F	R Drive	DYNAMIC/others	CXA2159S (88H)	25/2A
	01	GDR	25	3F	G Drive	DYNAMIC/others		1F
	02	BDR	25	3F	B Drive	DYNAMIC/others		1F
	03	RCT	07	0F	R Cutoff	SECAM/others		07
	04	GCT	07	0F	G Cutoff	SECAM/others		07
	05	BCT	07	0F	B Cutoff	SECAM/others		07
	06	BMN	15	1F	Brightness Minimum Data			15
	07	SBR	1F	3F	Sub Brightness Control			25
SAJ	08	APB	0	3	Sub Bright Ctl SW for PNC #3			02
	00	PMX	33	3F	Picture Maximum Data		CXA2159S (88H)	30
	01	SHU	08	0F	Sub Hue Control	TV/Video		08
	02	SSH	3	0F	Sub Sharpness Control	TV/Video		05/0C
VP	03	SCL	1F	3F	Sub Color Control	NTSC/others		1F
	00	EHT	4	0F	EHT Comp	50/60Hz	CXA2159S (88H)	05/05
	01	GMA	02	03	Gamma Correction	Refer NVM Map A4		
	02	APG	00	1	Gamma Ctl SW for PNC #3			00
	03	YDL	6	0F	Y Delay	PAL/SECAM/NTSC		6/9/8
	04	SST	1	03	SECAM ID Start Position	SECAM/PAL		01/01
	05	SSP	1	03	SECAM ID Stop Position	SECAM/PAL		01/01
	06	RLM	0	3	RGB Limit			02
	07	SLV	2	03	SECAM ID Level	SECAM/PAL		02/02
	08	SBF	22	3F	SECAM BELL f0	SECAM/PAL		22/22
	09	DYC	1	1	Dynamic Color on/off			01
	0A	ABL	1	1	ABL Mode Switching	STANDARD Always 0		01
	0B	VTH	1	1	ABL Detection Vth Switching			01
	0C	SFO	1	1	FO Switching for Sharpness	NTSC/others		01/01
	0D	DCX	1	1	DC Trans. Ratio Switching			01

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table & Note	Device Name Slava Address	RAM Address (Bit Range)
Category	No.	Name						
VP	0E	SHT	1	1	Pre-/Overshoot ratio Switch	NTSC/others	CXA2159S (88H)	01/01
	0F	HDW	0	1	H Drive Pulse Width Switch			00
	10	AFC	1	03	AFC Gain Control	TV/Video/Text		1/0/1
	11	HOS	7	0F	H Oscillation			07
	12	HSS	0	1	Slice Level of H Sync Sep.			00
	13	VSS	0	1	Slice Level of V Sync Sep.			00
	14	HMS	1	1	Macro Vision C/m off/on	50/60Hz		01
	15	YUV	1	1	YUV Switch Control			01
	16	CDV	1	3	CD mode for Video	Video only		01
	17	RON	1	1	R ON	not memorized		01
	18	GON	1	1	G ON	not memorized		01
	19	BON	1	1	B ON	not memorized		01
	1A	PON	1	1	P ON	not memorized		01
	1B	AXN	1	1	AXIS SW	NTSC/others (only for Dyna)		01
	1C	RSL	0	1	RGB SEL			00
	1D	VBW	1	3	VBKWL			00
	1E	RFP	0	1	REFP			00
	1F	JMP	0	1	Jump			00
	20	VMC	3	3	VM Off			03
AP	00	INF	5	3F	Input Attenuation When surround off		TDA7429	05
	01	INS	0A	3F	Input Attenuation When surround on (XG-ONLY)			0A
	02	SEF	00	0F	Surround Effect Control (XA-ONLY)			00
	03	PH1	3	3	Phase 1 Register Selection			03
	04	PH2	00	3	Phase 2 Register Selection (XG-ONLY)			00
	05	PH3	00	3	Phase 3 Register Selection (XG-ONLY)			00
	06	PH4	00	3	Phase 4 Register Selection (XG-ONLY)			00
	07	BCS	2	3	Bass Center Shift			02
	08	TCS	2	3	Treble Center Shift			02
	09	TRF	2	3	RF Treble Offset			02
MSP	00	WST	15	FF	W/G Stereo Threshold		MSP3415D (84H)	15
	01	WBT	EA	FF	W/G Bilingual Threshold			EC
	02	WLL	5	FF	W/G Monaural Threshold			05
	03	WAC	0	0F	W/G Agreement Count			01
	04	WDL	30	FF	W/G Search Delay			30
	05	NDL	20	FF	NICAM Search Delay			20
	06	SDL	10	FF	Stereo Status Read Delay			10
	07	AGC	1	1	AGC Switch Auto/Constant			1
	08	REL	28	3F	AGC Gain at Constant Mode			28
	09	CRM	0	1	Carrier muting on/off			0
	0A	ACO	1	1	Audio Clock out on/off			1

Adjustment Item Table

TVG	Functionality		Initial	Range	Function	Table & Note	Slava Address	RAM Address (bit)
Category	No.	Name						
MSP	0B	FP	1B	7F	FM Prescale for non-M system		MSP3415D (84H)	1B
	0C	FPM	32	7F	FM Prescale for M system			32
	0D	FH	36	7F	FM Prescale for HDEV			36
	0E	FHM	65	7F	FM Prescale for HDEV and M			65
	0F	WGP	2A	7F	W/G Prescale			1C
	10	NIP	6D	7F	NICAM Prescale			7F
	11	ERR	50	FF	Auto FM Switch Threshold			50
	12	VOL	6D	FF	Speaker gain 7000h to 7ff0h			6D
TXT	00	TXH	0	3	Teletext Horizontal Position		-	00
	01	TXV	0	3	Teletext Vertical Position			00
OPM	00	OSH	A0	3F	OSD H Position	Option-Misc	CXP86449	0F
	01	COM	1	03	Comb Selection			01
	02	APC	1	1	APC Switch			01
	03	TSY	0	03	TV Sys at Auto TV Sys			00
	04	MUT	0	1	No Signal Mute			00
	05	AFM	0	1	Auto FM Switch			01
	06	RFB	0	3	C-BPF Control			00
	07	TVO	0	7	Tilt to V-Angle Offset			02
	08	DBL	00	1	Disable Blueback Function			00
OPB	00	OP1	FF	FF	Optional Bits 1 (see Specified Sheet)	Option-Bits	CXP86449	FF
	01	OP2	62	FF	Optional Bits 2 (see Specified Sheet)			#
	02	OP3	B1	FF	Optional Bits 3 (see Specified Sheet)			#
	03	OP4	02	FF	Optional Bits 4 (see Specified Sheet)			02

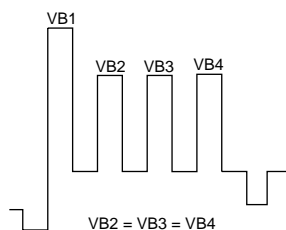
NOTE

- ■ shaded items are fixed data.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

4-3. PICTURE QUALITY ADJUSTMENTS

SUB COLOR ADJUSTMENT

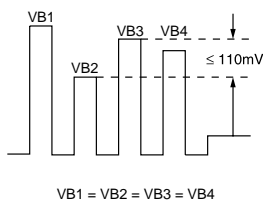
1. Input a PAL color-bar.
2. Set to the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
3. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
4. Set to Service Mode and select SAJ 3 'SCL' with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Adjust SAJ 3 'SCL' as step 2 to 5 when receiving NTSC color-bar.



VB2 = VB3 = VB4 (Difference is within 70mV)

SUB HUE ADJUSTMENT

1. Select Video 3.58.
2. Input a NTSC, color-bar, video into Video.
3. Set the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
5. Select SAJ 1 'SHU' with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6].



The highest level of VB1,VB2,VB3,VB4 must be aligned at the same line. Ideal difference level between VB2 and VB3 should be within $\pm 110\text{mV}$.

6. Press [MUTING] → [0] of the commander to write the data.

4-4. DEFLECTION ADJUSTMENT

1. Set to Service Mode.
2. Input PAL color bar.
3. Using the [1] and [4] button, select category GEO (Service Mode).
4. Raise/lower the data using the [3] and [6] buttons. Select and adjust the following items to obtain optimum image.

Service Item

GEO : 00	HPS	H POSITION
01	HSZ	H SIZE
02	PAP	PIN AMP
03	TLT	TILT
04	VPS	V POSITION
05	VSZ	V SIZE
06	SCO	S CORRECTION
07	VLN	V LINEARITY
08	BOW	AFC BOW
09	AGL	AFC ANGLE
0A	UPN	UPPER CORNER PIN
0B	LPN	LOWER CORNER PIN

5. Input 525/60Hz signal.
6. Using the [1] and [4] button select category GEO (Service Mode).
7. Select and adjust the following items to obtain optimum image. Raise/lower the data with the [3] and [6] buttons.

Service Item

GEO : 00	HPS	H POSITION
01	HSZ	H SIZE
02	PAP	PIN AMP
03	TLT	TILT
04	VPS	V POSITION
05	VSZ	V SIZE
06	SCO	S CORRECTION
07	VLN	V LINEARITY
08	BOW	AFC BOW
09	AGL	AFC ANGLE
0A	UPN	UPPER CORNER PIN
0B	LPN	LOWER CORNER PIN

4-5. H-TRAPEZOID ADJUSTMENT

1. Receive cross hatch/dot signal.
2. Adjust RV1801 on C6 board to make H-trapezoid distortion best.

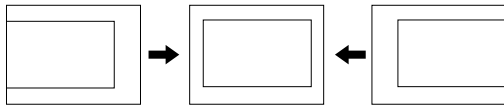
4-6. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
In cases where items are not well adjusted, rectify the items with fine adjustment.
Write the data per each item number ([MUTING] + [0]).
4. Select item numbers "OPB0" (OP1), "OPB1" (OP2), "OPB2" (OP3), "OPB3" (OP4) and respectively set the bit per model with command buttons [3] and [6].
5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory. (This will also cancel Service Mode.)

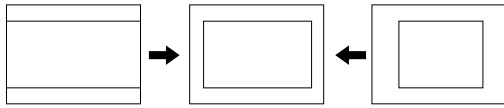
4-7. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

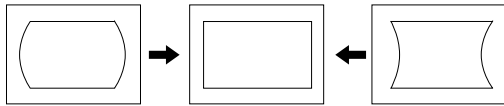
GEO 0 HPS (H POSITION)



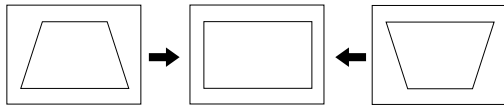
GEO 1 HSZ (H SIZE)



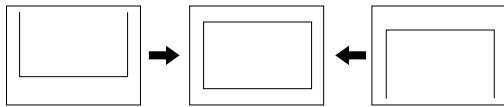
GEO 2 PAP (PIN AMP)



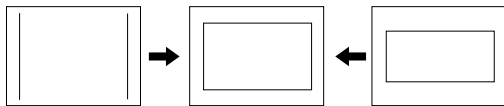
GEO 3 TLT (TRAPEZIUM)



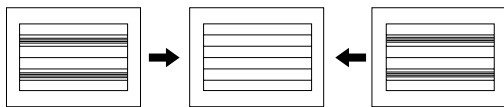
GEO 4 VPS (V POSITION)



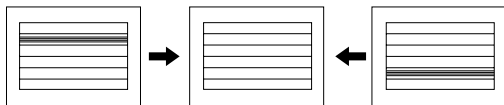
GEO 5 VSZ (V SIZE)



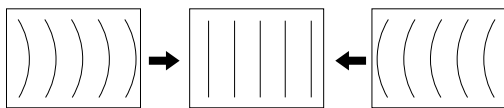
GEO 6 SCO (VERTICAL S-Correction)



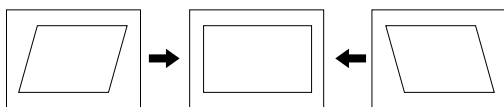
GEO 7 VLN (V LINEARITY)



GEO 8 BOW (AFC.BOW)

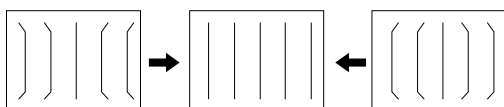


GEO 9 AGL (AFC.ANGLE)



GEO 0A UPN (UPPER CORNER PIN)

GEO 0B LPN (LOWER CORNER PIN)

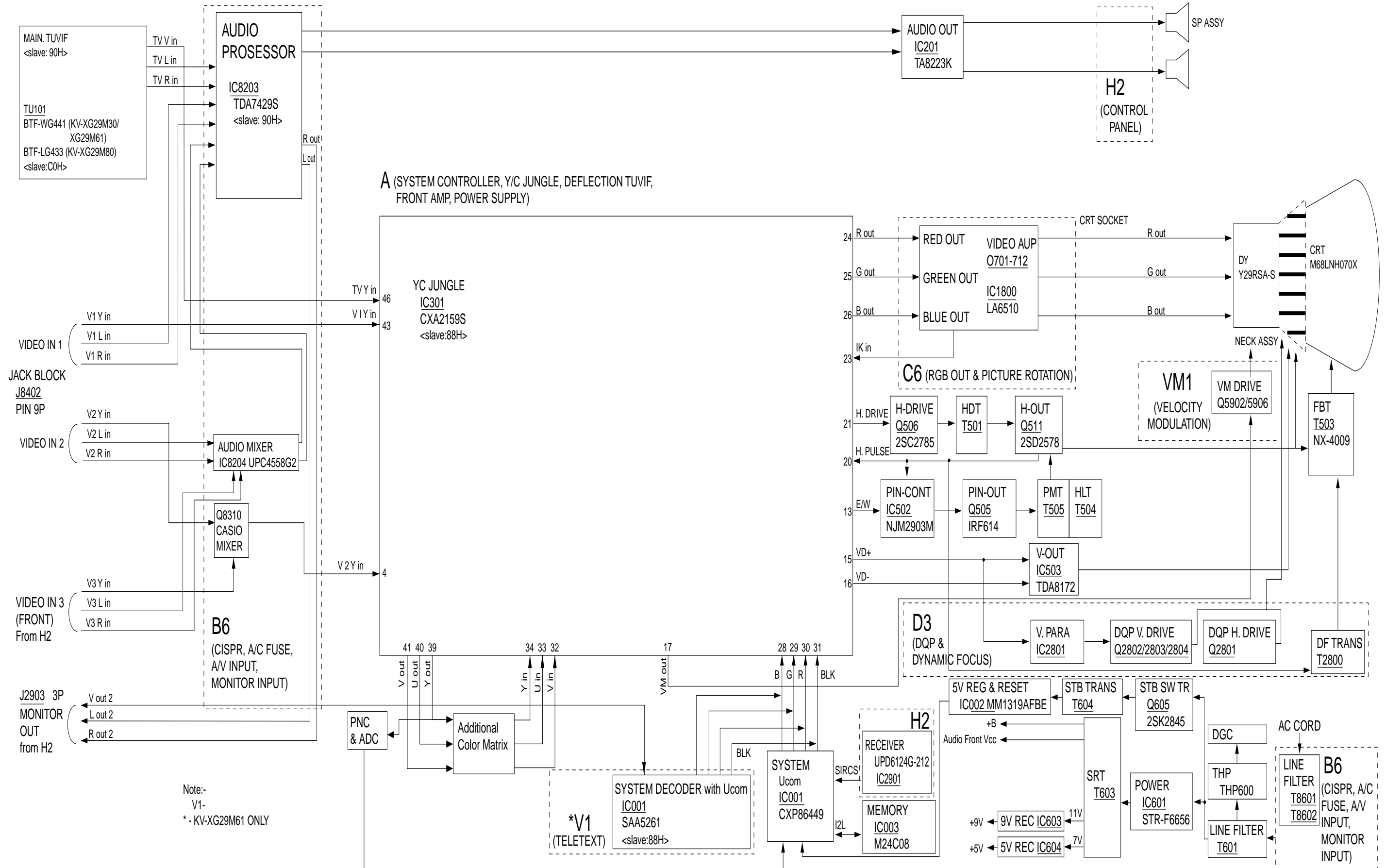


PICTURE DISTORTION ADJUSTMENT (2)

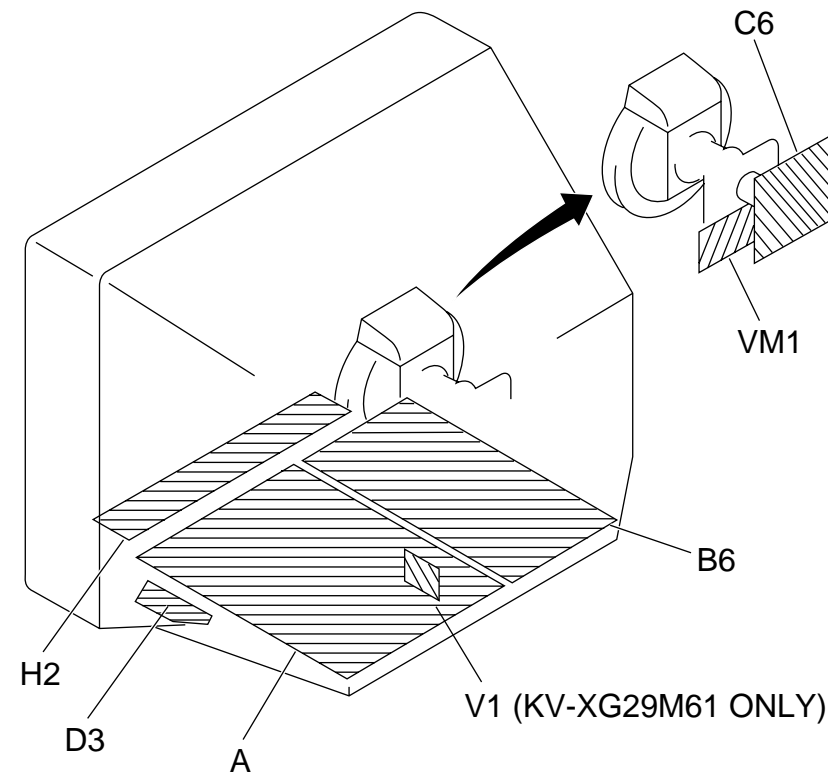
H-TRAPEZOID (Rotate RV1801)



5-1. BLOCK DIAGRAM



5-2. CIRCUIT BOARDS LOCATION



5-3. SCHEMATIC DIAGRAM

Note:

- All capacitors are in μF unless otherwise noted.
- All electrolytic capacitors are rated at 50V unless otherwise noted.
- All resistors are in ohms.
- $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
- Indication of resistance which does not have rating electrical power is as follows.

Pitch: 5 mm
Rating electrical power 1/4W (CHIP: 1/10W)

- : nonflammable resistor.
- Δ : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
- **Readings are taken with a color-bar signal input.**
 - no mark : PAL
 - () : SECAM
 - [] : NTSC 3.58
 - << >> : NTSC 4.43
- Readings are taken with a 10W MW digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltage are in V.
- * : Cannot be measured.
- Circled numbers are waveform references.
- : B +bus.
- : B -bus.
- : signal path.

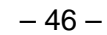
Reference information

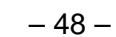
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
	: LF-8L	MICRO INDUCTOR
	: TA	TANTALUM
CAPACITOR	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

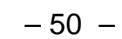
Note: The component identified by shading and mark Δ are critical for safety. Replace only with part number specified.

A
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B
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C
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D
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E
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F
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G
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H
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I
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J





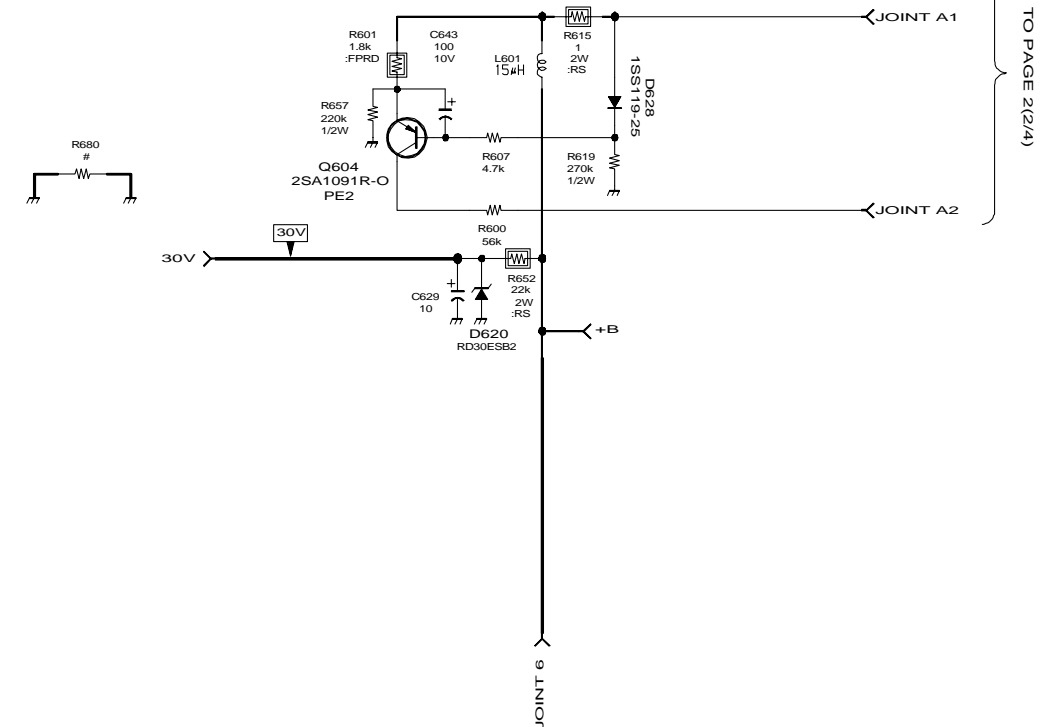




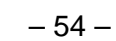
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

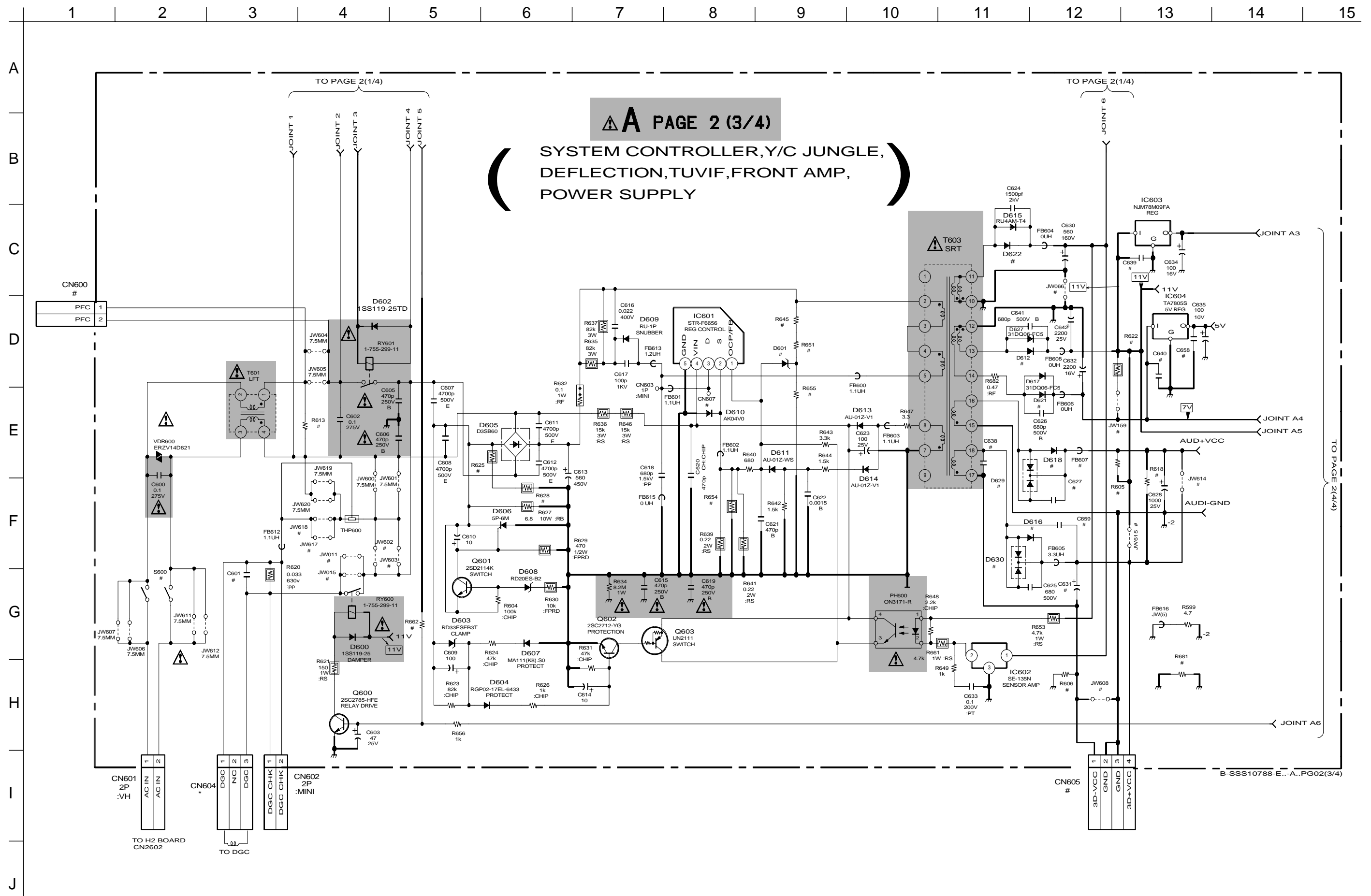
J

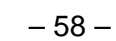
SYSTEM CONTROLLER,Y/C JUNGLE,
DEFLECTION,TUVIF,FRONT AMP,
POWER SUPPLY



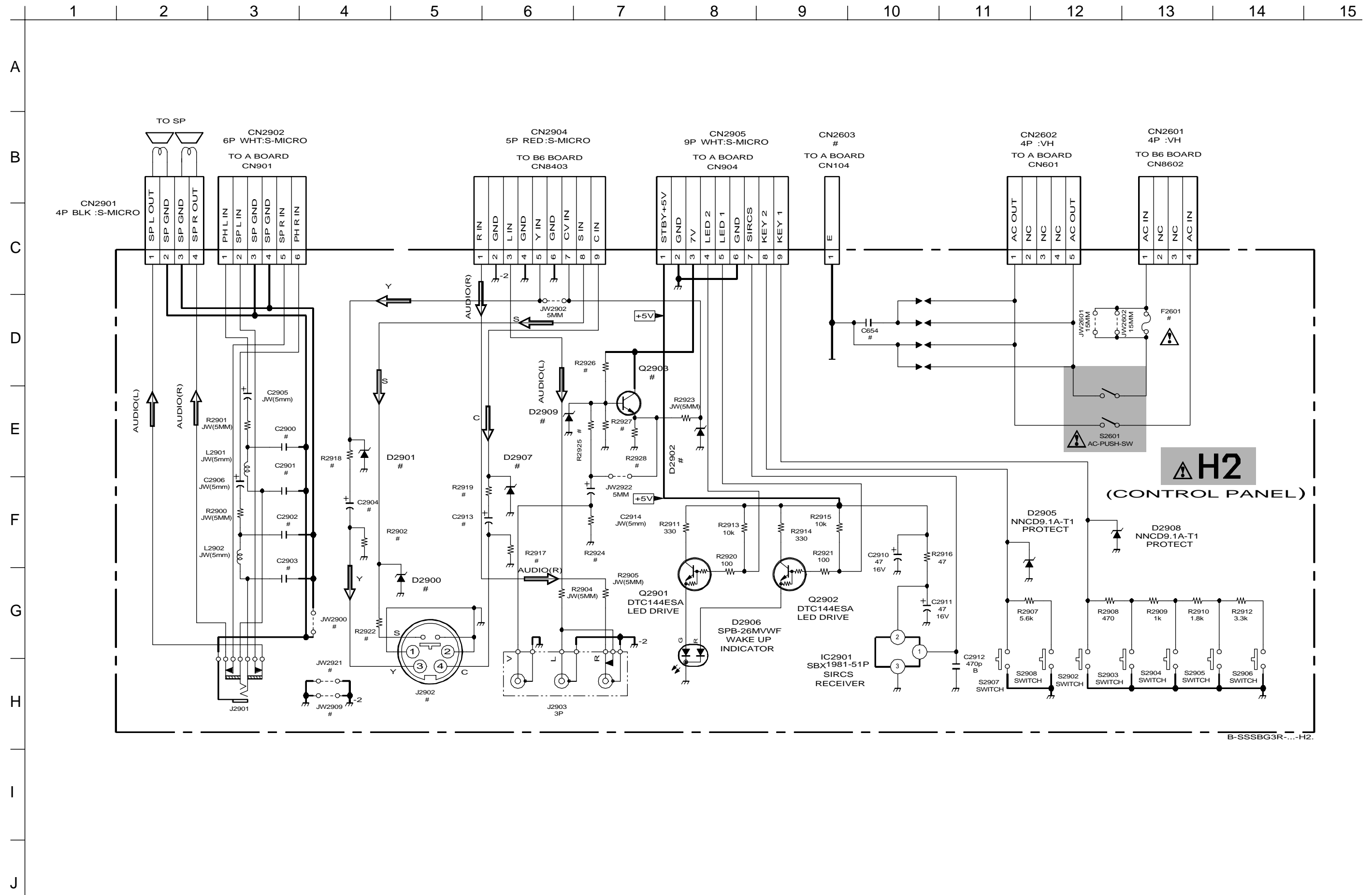
B-SSS10788-E..A..-PG02(1/4)



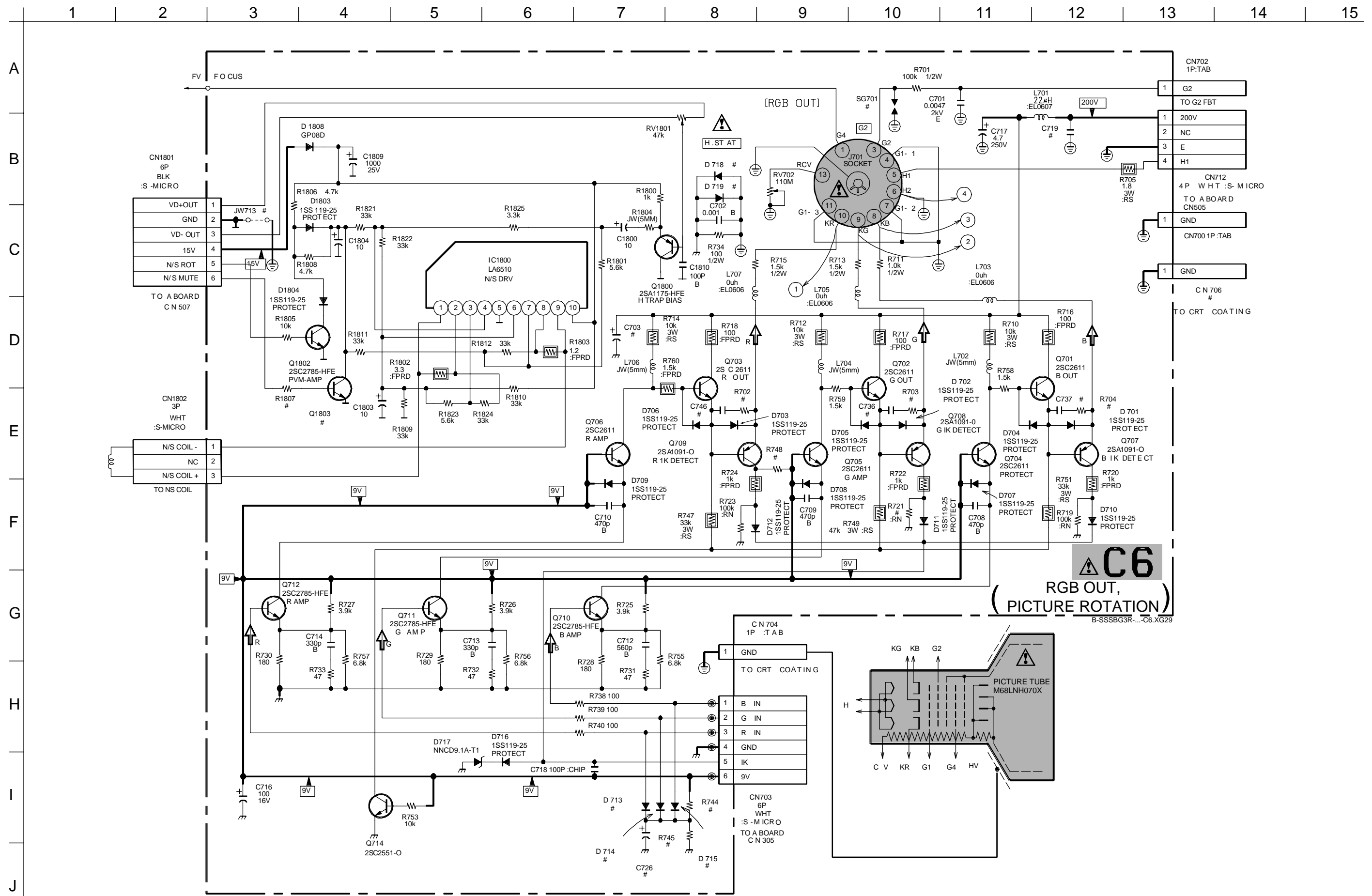




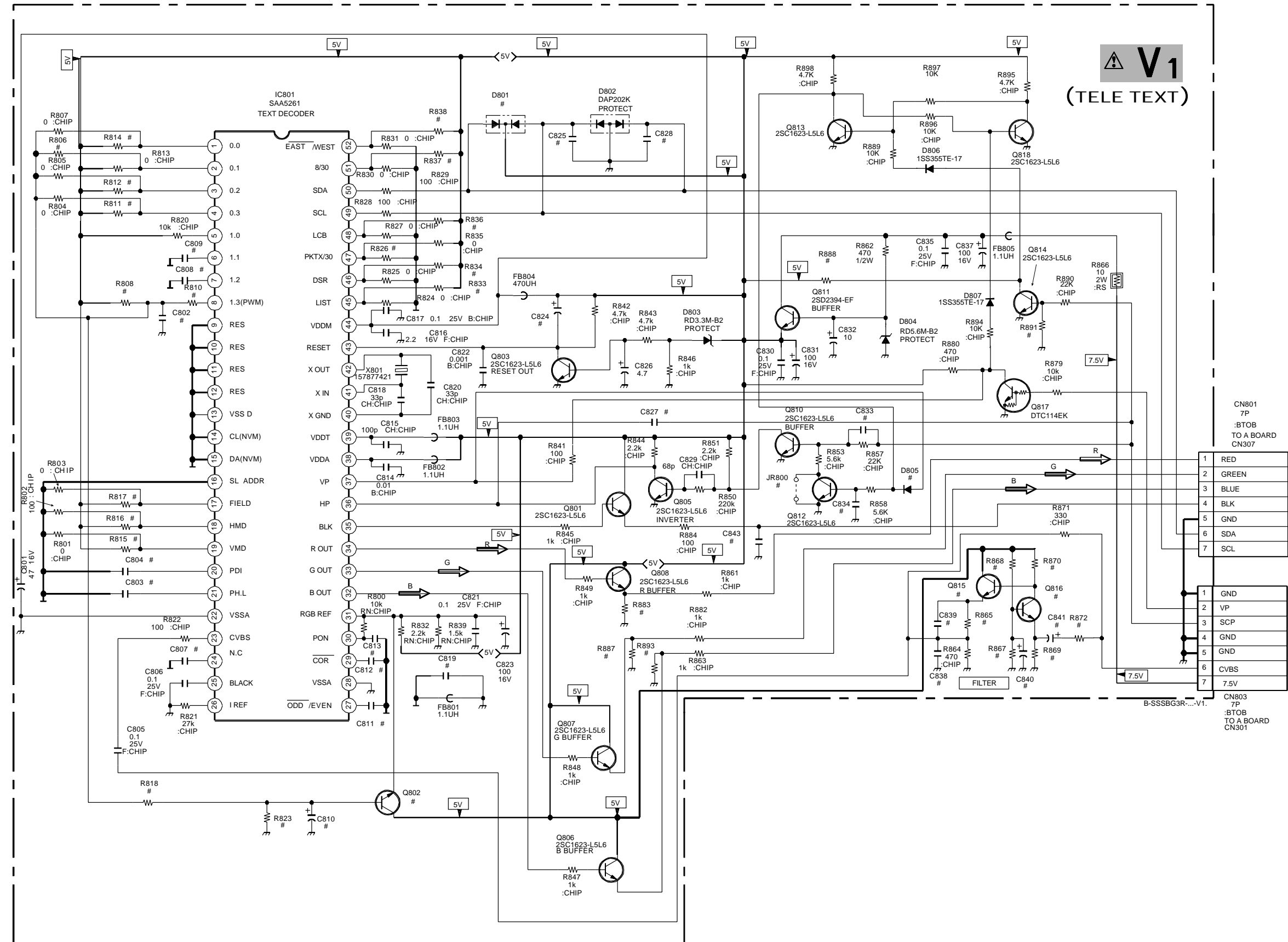
(3) Schematic Diagram of H2 Board



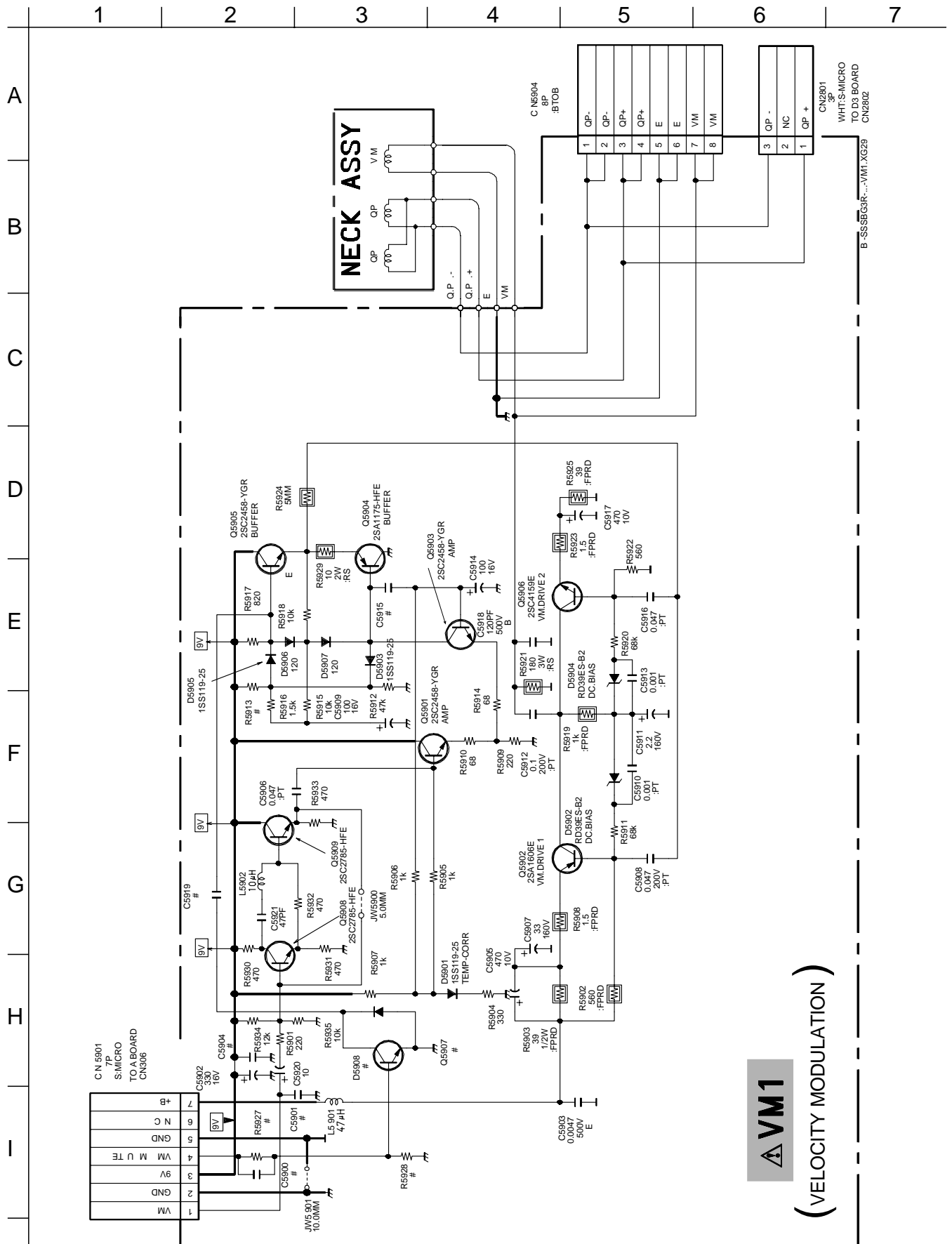
(4) Schematic Diagram of C6 Board



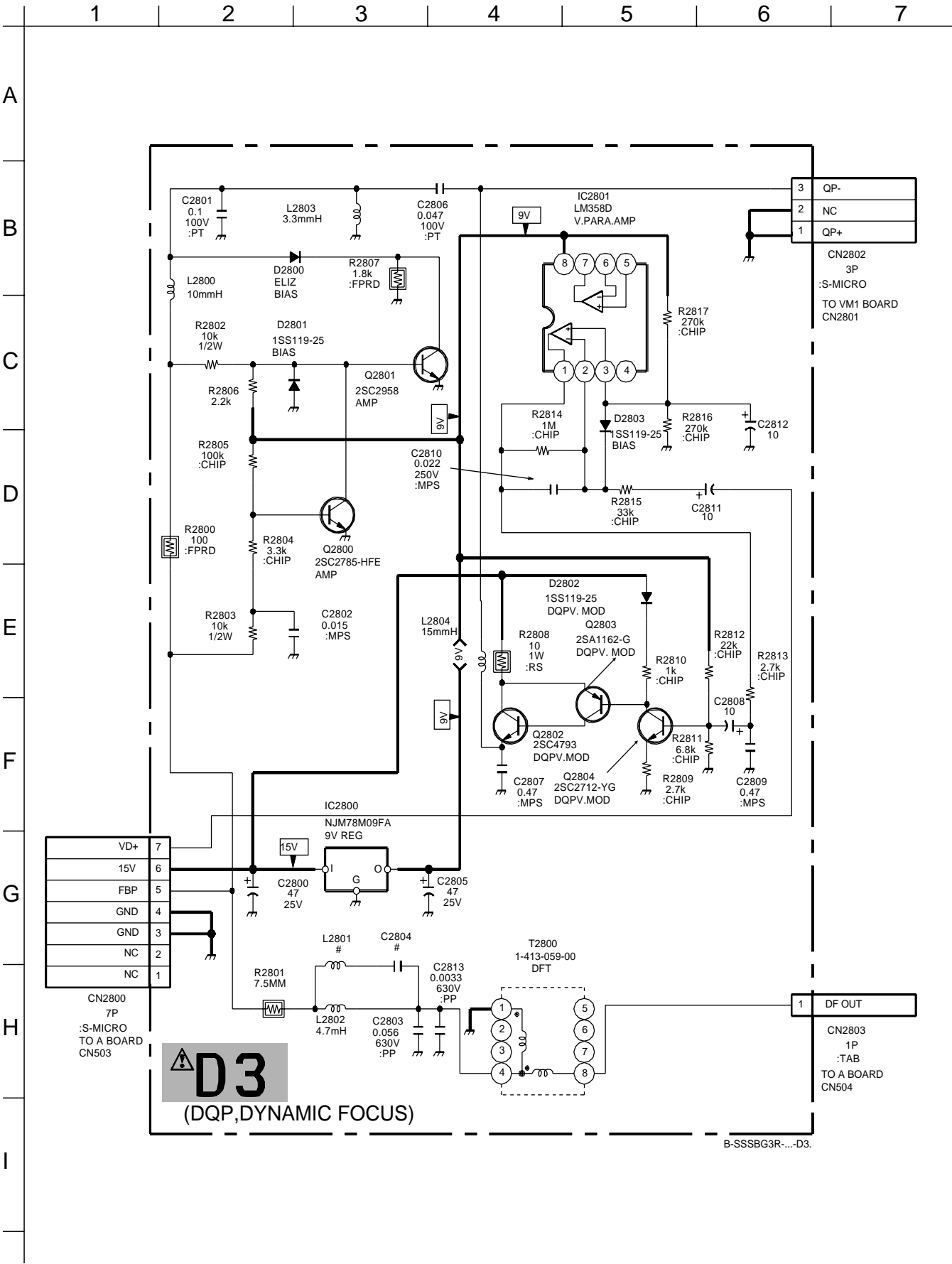
A
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B
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(6) Schematic Diagram of VM1 Board



(7) Schematic Diagram of D3 Board



A Board * Mark List

	KV-XG29M30	KV-XG29M61	KV-XG29M80
CN301	#	7P	#
CN307	#	7P	#
CN604	2P	3P	3P
D100	MA111-(K8).SO	MA111-(K8).SO	#
IC100	S-80743AL-A7-S	S-80743AL-A7-S	#
JR107	0: CHIP	0: CHIP	#
JR109	#	#	0: CHIP
R028	10K: CHIP	10K: CHIP	#
R101	100: CHIP	100: CHIP	#
R102	100: CHIP	100: CHIP	#
R375	#	100: CHIP	#
TU101	BTF-WG441	BTF-WG441	BTF-LG433

Note: The parts indicated as "#" in this circuit diagram are not listed here, as they are not used for these models.

5-4. VOLTAGE LIST MEASUREMENT

A (1/2) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
IC001	1	0	IC003	3	4.9		31	4.5
	2	4.9		4	7.3		32	4.5
	3	*		5	5.9		33	4.0
	4	5.0		6	0		34	3.6
	5	5.0		7	*		35	*
	6	0	IC003	1	0		36	*
	7	3.9		2	0		37	*
	8	4.9		3	0		38	4.6
	9	0.4		4	0		39	*
	10	4.9		5	5.0		40	5.1
	11	5.0		6	5.0		41	5.0
	12	0		7	5.0		42	0
	13	2.2		8	5.0		43	4.9
	14	2.1	IC100	1	4.9		44	*
	15	5.0		2	5.0		45	7.4
	16	5.0[0.2]<5.0>		3	0		46	5.0
	17	0	IC201	1	1.3		47	8.6
	18	0		2	22.2		48	*
	19	2.8		3	11.7		49	4.3
	20	*		4	22.6		50	0
	21	5.0		5	11.7		51	0
	22	0		6	22.2		52	(2.7)
	23	5.0		7	0	IC502	1	0.9
	24	*		8	22.5		2	3.6
	25	*		9	11.6		3	1.6
	26	5.0		10	0.6		4	0
	27	3.9[4.9]		11	0		5	2.9
	28	5.0		12	0		6	2.4
	29	4.9		13	0		7	6.9
	30	0		14	0.6		8	8.9
	31	0		15	0	IC503	1	1.6
	32	0	IC301	1	3.3		2	12.9
	33	5.0		2	3.4(5.0)[5.0]<5.0>		3	13.14
	34	*[0]		3	2.3		4	14.6
	35	0		4	5.0		5	*
	36	(2.6)		5	4.8		6	13.0
	37	2.5		6	4.3		7	1.6
	38	4.9		7	5.4	IC602	1	121.2
	39	5.0		8	4.5		2	127.7
	40	0		9	4.9		3	121.2
	41	1.0(0)		10	*	IC603	I	12.7
	42	1.0(0)		11	*		G	0
	43	0		12	0		O	8.9
	44	5.0		13	8.2	IC604	I	8.2
	45	5.0		14	2.4		O	5.0
	46	4.6		15	3.5		G	0
	47	5.0		16	3.5	Q001	B	0.8
	48	4.6		17	5.7		C	0
	49	4.6		18	7.7		E	0
	50	0		19	1.0	Q002	B	0
	51	0		20	3.6		C	5.0
	52	0		21	3.2		E	0
IC002	1	0		22	3.9	Q003	B	5.0
	2	5.0		23	3.3		C	0
				24	2.5		E	4.8
				25	2.5	Q004	B	0
				26	2.6		C	4.9
				27	*		E	0
				28	4.5	Q101	B	2.9
				29	4.5		C	8.8
				30	4.5		E	2.2

A (2/2) BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
Q201	B	1.1	Q307	B	4.3	Q600	B	0
	C	0		C	4.3		C	*
	E	0		E	8.6		E	0
Q202	B	1.1	Q308	B	4.1(3.5)[3.5]<3.5>	Q601	B	*
	C	0		C	0.4		C	*
	E	0		E	4.7(1.0)[1.0]<1.0>		E	*
Q205	B	11.7	Q313	B	0	Q602	B	1.1
	C	0		C	12.5		C	1.2
	E	0		E	0		E	1.0
Q206	B	0	Q315	B	0	Q603	B	1.2
	C	0		C	2.5		C	1.0
	E	0		E	0		E	1.2
Q207	B	11.7	Q501	B	3.5	Q604	B	*
	C	0		C	0		C	0
	E	0		E	0		E	133.9
Q301	B	12.6	Q502	B	4.2	Q605	B	0
	C	12.7		C	2.4		C	0
	E	12.7		E	4.0		E	0
Q302	B	4.7	Q503	B	0	Q606	B	0
	C	8.1		C	3.6		C	0
	E	4.1		E	0		E	0
Q303	B	7.9	Q505	B	6.9	Q607	B	0.7
	C	3.2		C	15.7		C	0
	E	3.4		E	0		E	0
Q304	B	3.4	Q507	B	*	Q608	B	0
	C	0		C	0.1		C	0
	E	4.0		E	12.8		E	0.7
Q305	B	4.1	Q509	B	0.6			
	C	0		C	0			
	E	4.7		E	0			
Q306	B	4.1	Q511	B	0			
	C	0		C	*			
	E	0.4[0]<0>		E	*			

H2 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]
IC2901	1	4.8
	2	4.8
	3	0
Q2901	B	0.1
	C	4.9
	E	0.1
Q2902	B	*
	C	1.2
	E	1.3

B6 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
IC8203	1	4.5		23	4.5		4	0
	2	4.5		24	0		5	2.5
	3	4.5		26	*		6	2.5
	4	4.5		27	*		7	5.0
	5	4.5		28	0		8	*
	6	4.5		29	3.8	Q8309	B	5.7
	7	4.5		30	3.8		C	8.8
	8	4.5		31	3.8		E	5.0
	9	4.5		32	3.8	Q8310	B	5.7
	10	4.5		33	4.5		C	8.8
	11	4.5		34	4.5		E	1.8
	12	4.5		35	4.5	Q8401	B	0
	13	4.5		36	4.5		C	0
	14	4.5		37	4.5		E	0
	15	4.5		38	4.5	Q8402	B	*
	16	4.5		39	4.5		C	0
	17	4.5		40	4.5		E	0
	18	4.5		41	4.5	Q8403	B	5.2
	19	4.5		42	8.9		C	0
	20	4.5	IC8204	1	5.0		E	4.6
	21	4.5		2	2.5	Q8404	B	5.2
	22	4.5		3	2.5		C	0
							E	4.5

D3 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No.	Voltage[v]
IC2801	1	0.1	Q2801	B	1.6
	2	6.3		C	2.3
	3	0.1		E	0
	4	0	Q2802	B	3.3
	5	6.4		C	12.1
	6	0.1	Q2803	E	0
	7	0.1		B	11.5
	8	12.8		C	3.3
Q2800	B	1.6	Q2804	E	12.1
	C	2.0		B	2.3
	E	0		C	12.0
				E	0

C6 BOARD VOLTAGE LIST

Ref	Pin No	Voltage[v]	Ref	Pin No.	Voltage[v]
IC1800	1	10.5	Q705	B	8.8
	2	10.8		C	148.0
	3	8.2		E	8.2
	4	0[8.3]<8.3>	Q706	B	8.8<*>
	5	0		C	149.0(8)<134.0>
	6	7.7		E	8.3
	7	7.7	Q707	B	146.7[171.0]<<139.0>>
	8	2.4		C	5.0<0.9
	9	2.6		E	142.4<<137.0>>
	10	12.2	Q710	B	2.5
J701	G2	1.7(295.0)[295.0]<290.0>		C	8.3
	H1	[0.7]<0.7>		E	2.5<<*>>
	KB	142.8<13 7.0>	Q712	B	2.4
	KG	143.3(1.5)[146.0]<138.0>		C	8.3
	KR	145.5<135.0>		E	2.4
Q701	B	146.6[*]<137.0>	Q714	B	0
	C	198.9		C	0
	E	146.2[173.0]		E	0
Q702	B	148.1<136.0>	Q1800	B	3.8
	C	198.9		C	0
	E	148.5[177.0]<137.0>		E	4.5
Q703	B	149.1(*)<133.0>	Q1802	B	*
	C	198.8(149.0)		C	11.2
	E	149.2[180.0]<134.0>		E	0
Q704	B	8.8			
	C	*			
	E	8.2			

VM1 BOARD VOLTAGE LIST

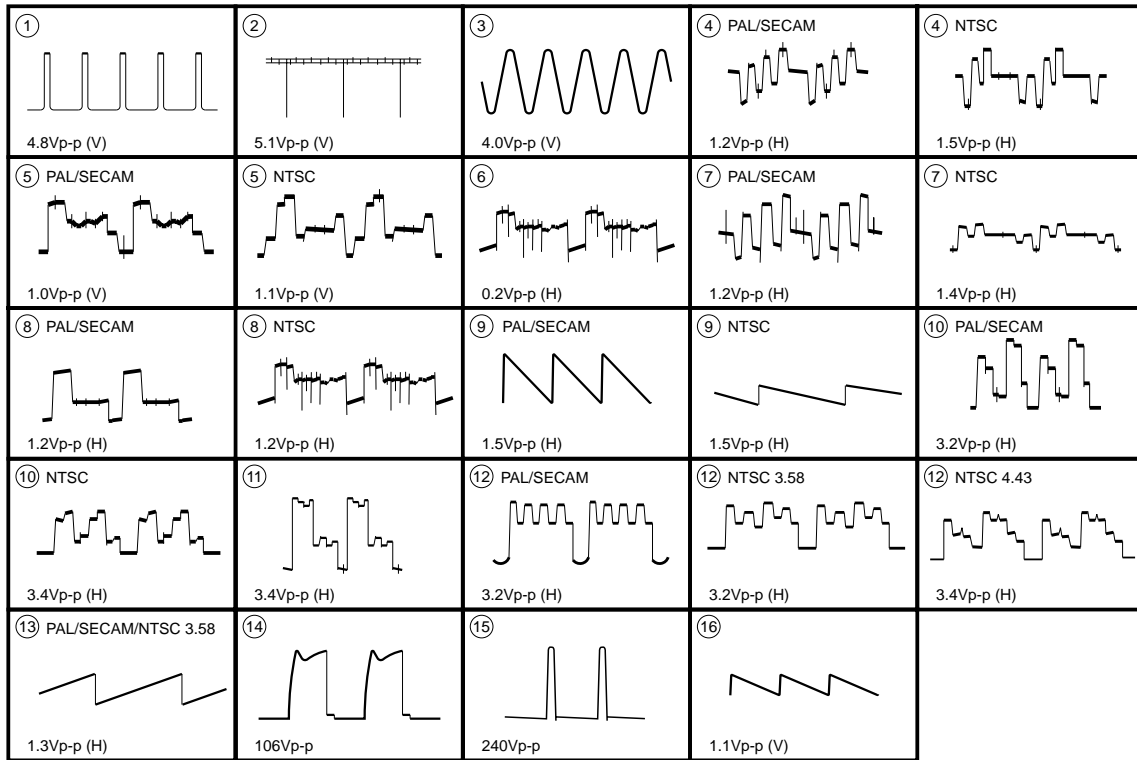
Ref	Pin No	Voltage[v]
Q5901	B	2.6
	C	8.7
	E	1.9
Q5902	B	134.9
	C	69.9(73.9)<72.3>
	E	134.9
Q5903	B	2.6
	C	4.6
	E	1.9
Q5904	B	4.6
	C	5.0
	E	0
Q5905	B	5.5
	C	8.7
	E	5.1
Q5906	B	0.2
	C	70.0(74.1)<<72.3>>
	E	<<72.3>>

V1 BOARD VOLTAGE LIST (KV-XG29M61 ONLY)

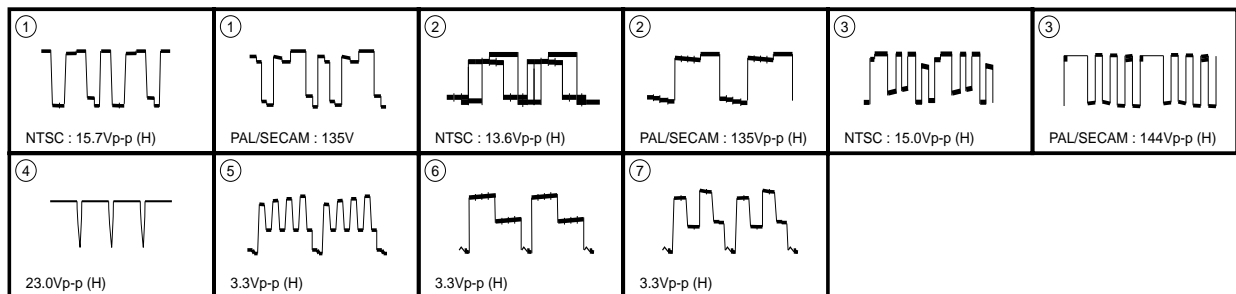
Ref	Pin No	Voltage[v]	Ref	Pin No.	Voltage[v]	Ref	Pin No.	Voltage[v]
IC801	1	0.4		28	0	Q801	B	0
	2	4.9		29	0.4		C	4.9
	3	0.4		30	2.0		E	0
	4	0.4		31	2.0	Q803	B	0
	5	4.9		32	0		C	0
	6	4.9		33	0		E	0.6
	7	0		34	0	Q805	B	0.4
	8	0		35	0		C	0.9
	9	4.8		36	0.9		E	0
	10	0		37	0.1	Q806	B	0
	11	2.4		38	4.9		C	4.9
	12	2.3		38	4.9		E	0
	13	0		39	4.9	Q807	B	0
	14	4.9		40	0		C	4.9
	15	4.9		41	2.3		E	0
	16	0.2		42	2.4	Q808	B	0
	17	0.9		43	0		C	4.9
	18	0		44	4.8		E	0
	19	0		45	0	Q810	B	0.2
	20	0.5		46	0		C	4.0
	21	0.5		47	4.9		E	0
	22	0		48	0	Q811	B	5.5
	23	2.2		49	4.4		C	6.3
	24	0.5		50	4.5		E	4.9
	25	2.0		51	0	Q817	B	2.8
	26	2.4		52	0		C	0.1
	27	0					E	0

5-5. WAVEFORMS

A BOARD WAVEFORMS



C6 BOARD WAVEFORMS

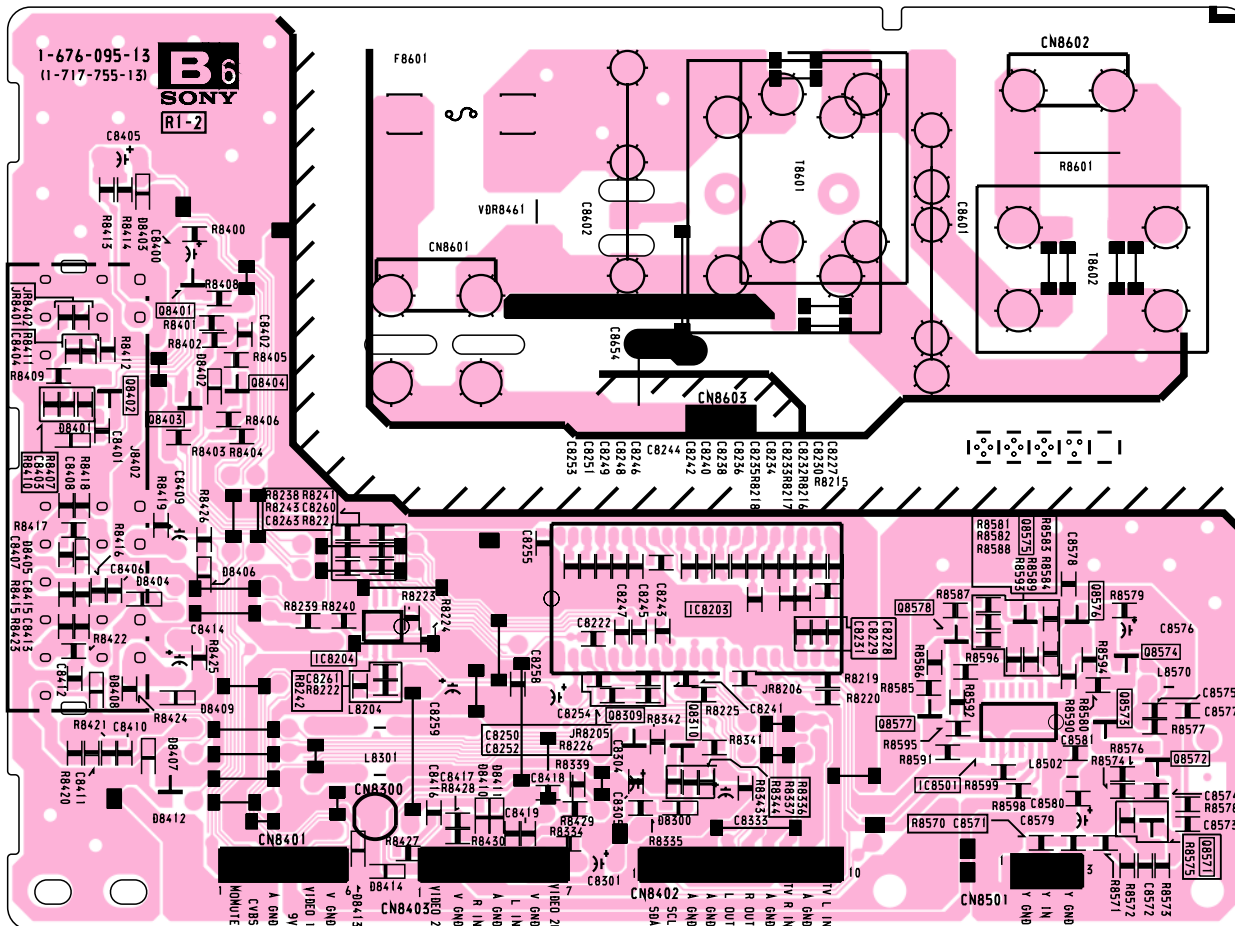


PRINTED WIRING BOARDS

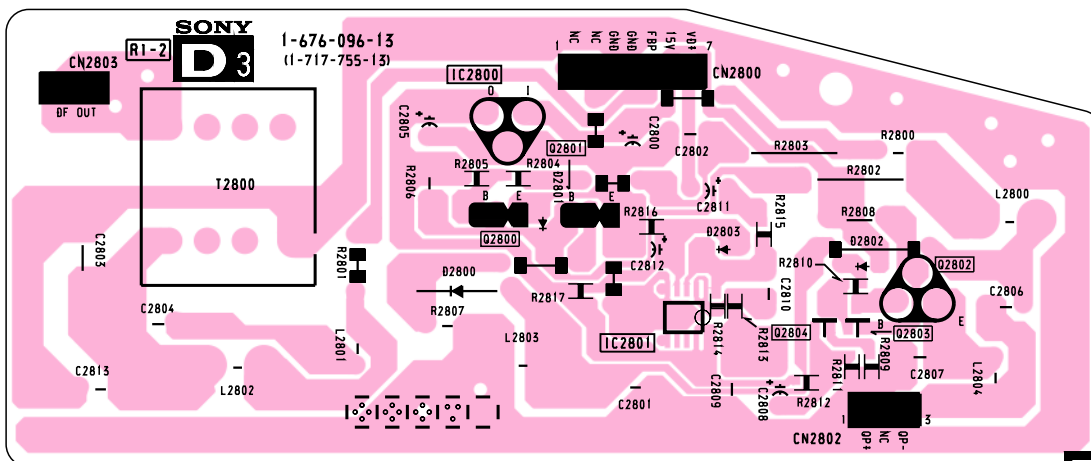
B6

D3

– B6 Board –



– D3 Board –

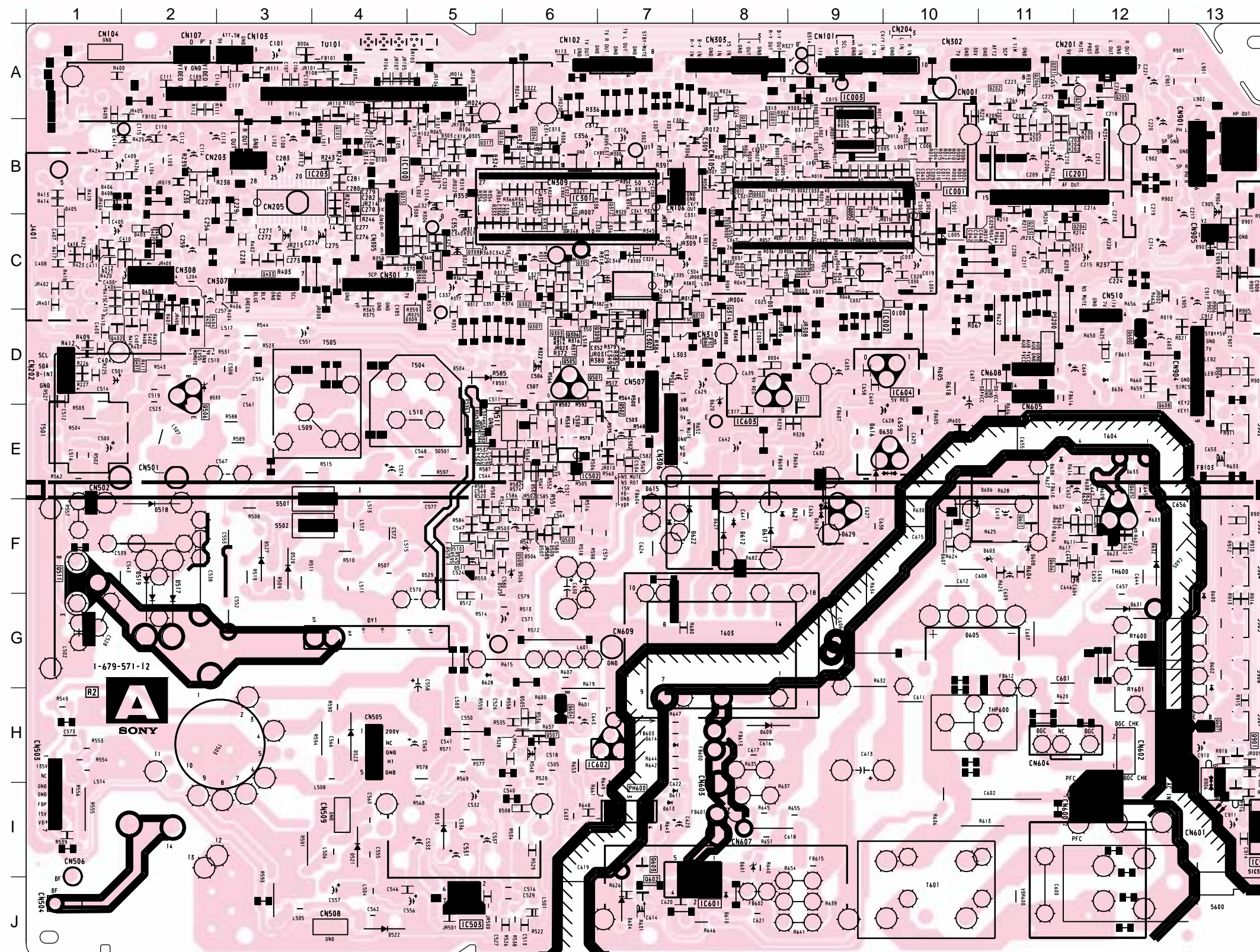


A [SYSTEM CONTROLLER, Y/C JUNGLE,
DEFLECTION, TUVIF, FRONT AMP, POWER SUPPLY]

– A Board –



NOTE:
The circuit indicated at left contains high voltage of over 1220 Vp-p. Please pay attention when inspecting or re-pairing it to prevent an electric shock.



A BOARD

IC		DIODE	
IC001	B-10	D001	B-8
IC002	D-10	D003	C-9
IC003	A-9	D004	D-8
IC100	B-4	D005	B-8
IC201	B-12	D006	A-3
IC203	B-4	D007	B-8
IC301	B-6	D008	B-8
IC302	D-7	D009	B-8
IC502	E-6	D100	B-4
IC503	J-5	D203	C-11
IC601	J-8	D300	A-9
IC602	H-7	D301	B-9
IC603	E-8	D303	B-5
IC604	D-10	D304	B-5
IC901	I-13	D305	B-5
TRANSISTOR		D306	C-5
Q001	C-8	D307	C-5
Q002	B-8	D308	B-5
Q005	B-9	D309	D-5
Q101	B-4	D312	C-5
Q201	A-11	D313	A-8
Q202	A-11	D314	A-9
Q203	C-11	D315	B-7
Q204	C-11	D317	B-9
Q205	A-12	D319	B-6
Q206	A-11	D320	C-5
Q207	A-12	D321	B-6
Q301	A-8	D322	B-6
Q302	C-6	D401	C-2
Q303	D-6	D402	D-2
Q304	B-6	D403	C-2
Q305	C-6	D404	C-2
Q306	D-6	D405	B-1
Q307	D-6	D406	B-1
Q308	C-5	D407	C-2
Q309	D-7	D408	B-1
Q310	D-7	D409	A-1
Q311	D-9	D504	D-5
Q312	B-7	D505	H-6
Q313	B-8	D506	F-6
Q314	D-8	D507	F-6
Q315	B-4	D508	I-7
Q316	B-5	D509	F-6
Q317	B-5	D510	F-5
Q401	D-2	D511	F-5
Q402	D-1	D512	G-5
Q403	C-3	D513	I-5
Q404	D-2	D517	F-2
Q501	D-6	D518	F-2
Q502	E-7	D519	F-2
Q503	F-6	D520	E-5
Q505	D-6	D521	I-4
Q506	E-2	D522	J-4
Q507	H-6	D523	H-4
Q509	F-6	D525	F-5
Q511	F-1	D526	F-6
Q600	D-12	D527	F-3
Q601	F-11	D528	F-3
Q602	I-7	D529	F-5
Q603	I-7		
Q604	H-6		
Q605	E-12		

PRINTED WIRING BOARDS

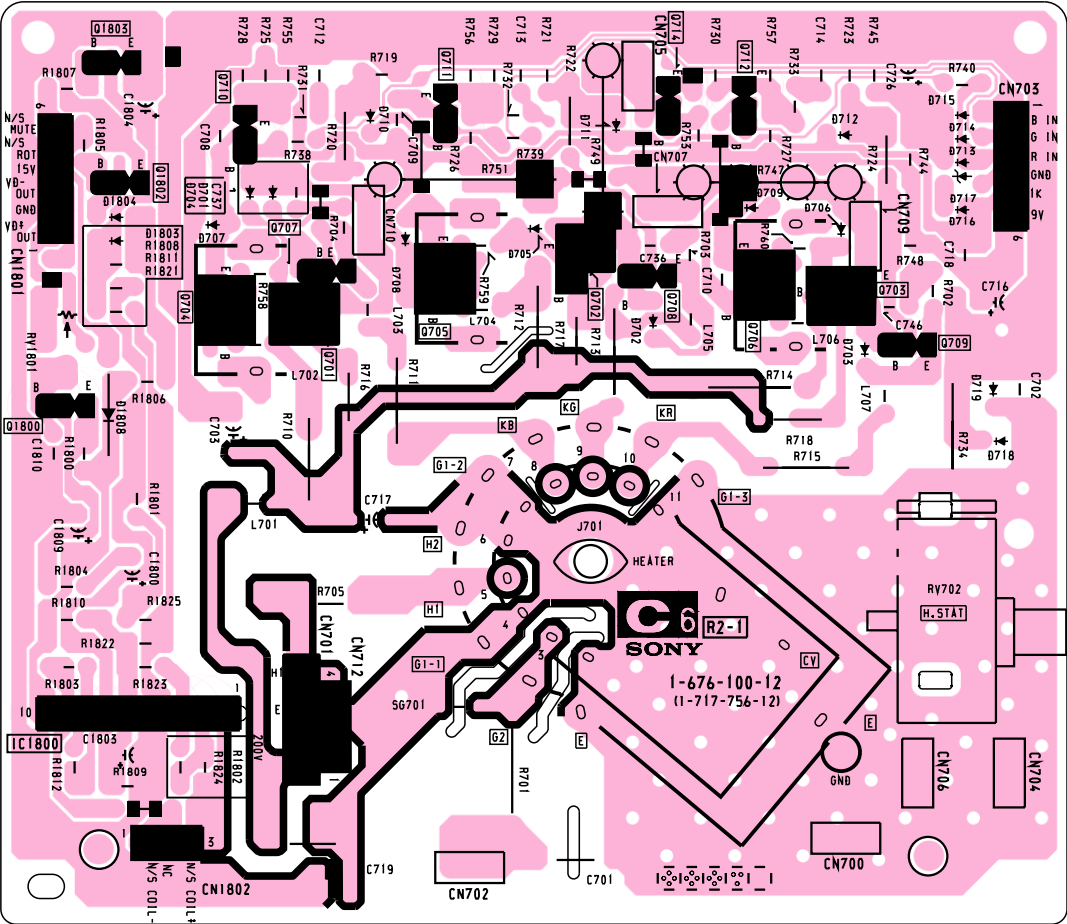
C6 [RGB OUT, PICTURE ROTATION]

H2 [CONTROL PANEL]

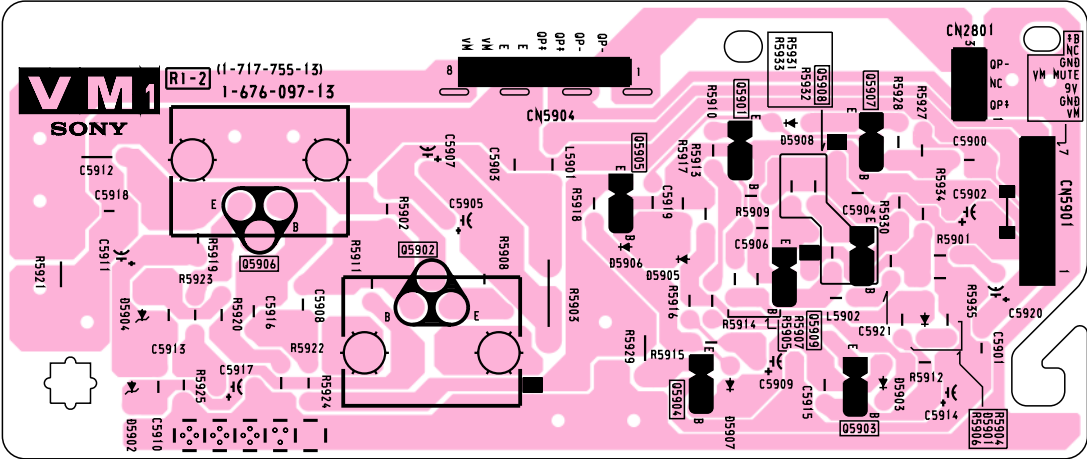
VM1 [VELOCITY MODULATION]

V1 [TELE TEXT]

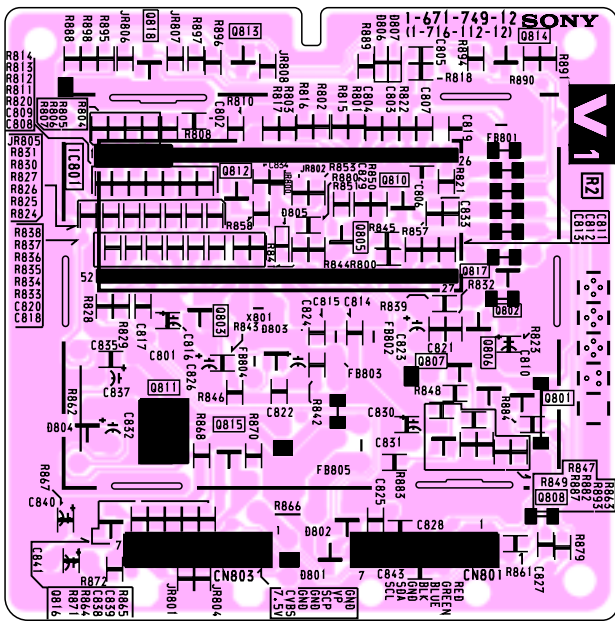
– C6 Board –



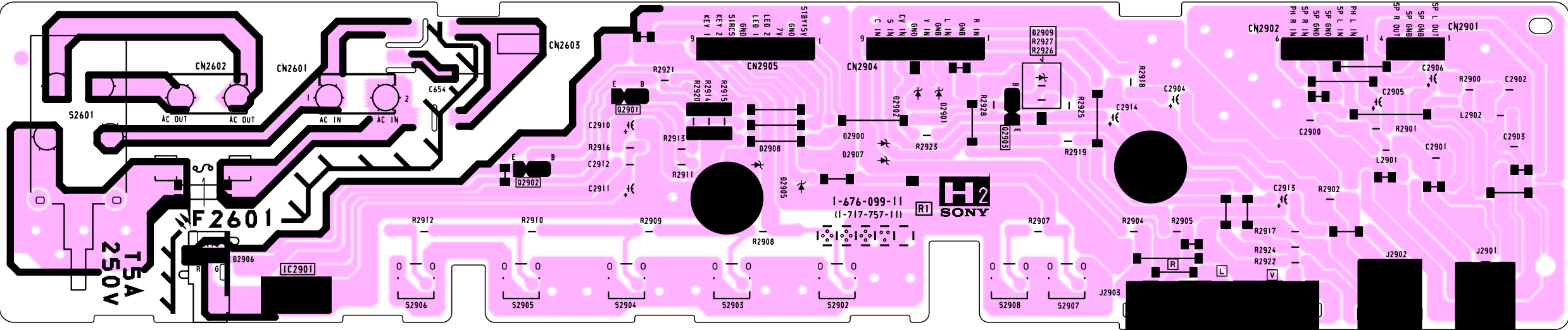
– VM1 Board –



– V1 Board – (KV-XG29M61 ONLY)

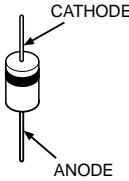
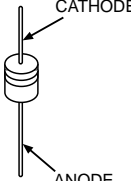
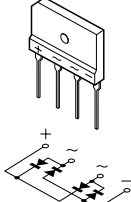
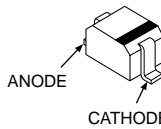
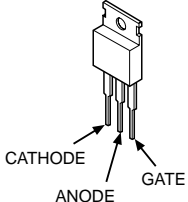


– H2 Board –



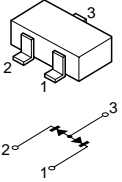
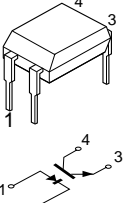
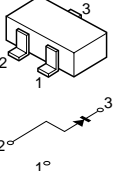

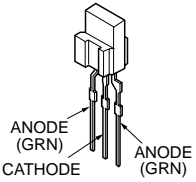
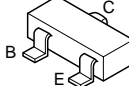
5-7. SEMICONDUCTORS

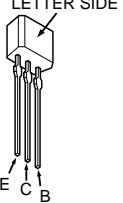
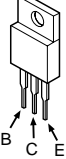
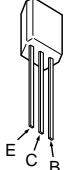
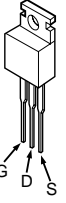
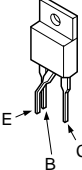
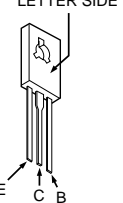
DIODE

					
AK04V0 AU-01Z-V1 EL1Z ERA22-08 GP08D NNCD9.1A-T1 RD33EB3T RGP02-17EL-6433	ERC04-06SE RS3FS RU4AM-T4 31DQ06-FC5 D2L20U	D1NS4 D1N20R RD20ES-B2 RD30ESB2 RD6.8ES-B1 1SS119-25	D3SB60	DTZ10B DTZ-TT11-15B MA111-(K8).S0 RD7.5SB1-T1 RD9.1S-B UDZS-TE17-5.1B UDZS-TE17-9.1B 1SS355TE-17	5P6M

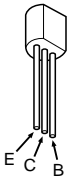

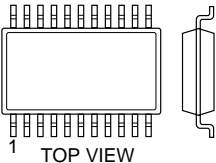
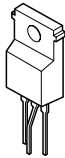
LED

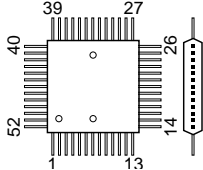
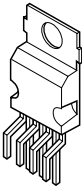
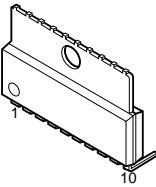
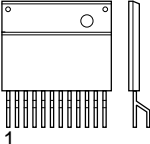
TRANSISTOR

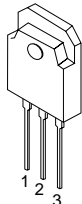
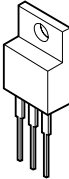
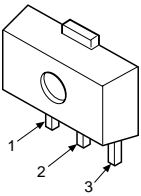
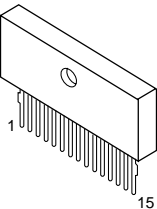
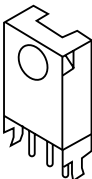
					
DA204K DAP202K	ON3171-R	RD3.3M-B2 RD5.6M-B2	RN4Z	SPB-26MVWF	UN2111 UN2213 UN2216 2SA1162-G 2SC1623-L5L6 2SC2712-YG 2SD2114K

					
DTC144ESA 2SA1175-HFE 2SC2785-HFE 2SA933AS-QT	2SA1606-E 2SC4159-E	2SC2458-YGR 2SD2144S-UVW	IRF614	2SK2845-LB102	2SC2611 2SC2688-LK

IC

	 <p>TOP VIEW</p> <p>Dual In-line Package Pin 6~98</p>	 <p>TOP VIEW</p> <p>Small outline L-leaded Pin 8~98</p>	
<p>2SA1091-0 2SC2551-0</p>	<p>CXP86449-630S (64PIN) M24C08-BN6 (8PIN) TDA7429S (15PIN) CXA2159S TDA9183T</p>	<p>LM358D (8PIN) MM1319AFBE (7PIN) NJM2903M (8PIN) μPC4558G2 (8PIN) UPD6124G-212</p>	<p>SE-135N</p>

<p>MARKING SIDE VIEW</p> 			<p>MARKING SIDE VIEW</p>  <p>Zig-zag In-line Package Pin 6~99</p>
<p>RU-1P</p>	<p>TDA8172</p>	<p>LA6510</p>	<p>STR-F6656</p>

				
<p>2SD2578-CA</p>	<p>NJM78M09FA TA7805S</p>	<p>S-80743AL-A7-S</p>	<p>TA8223K</p>	<p>SBX1981-5IP</p>

SECTION 6

EXPLODED VIEWS

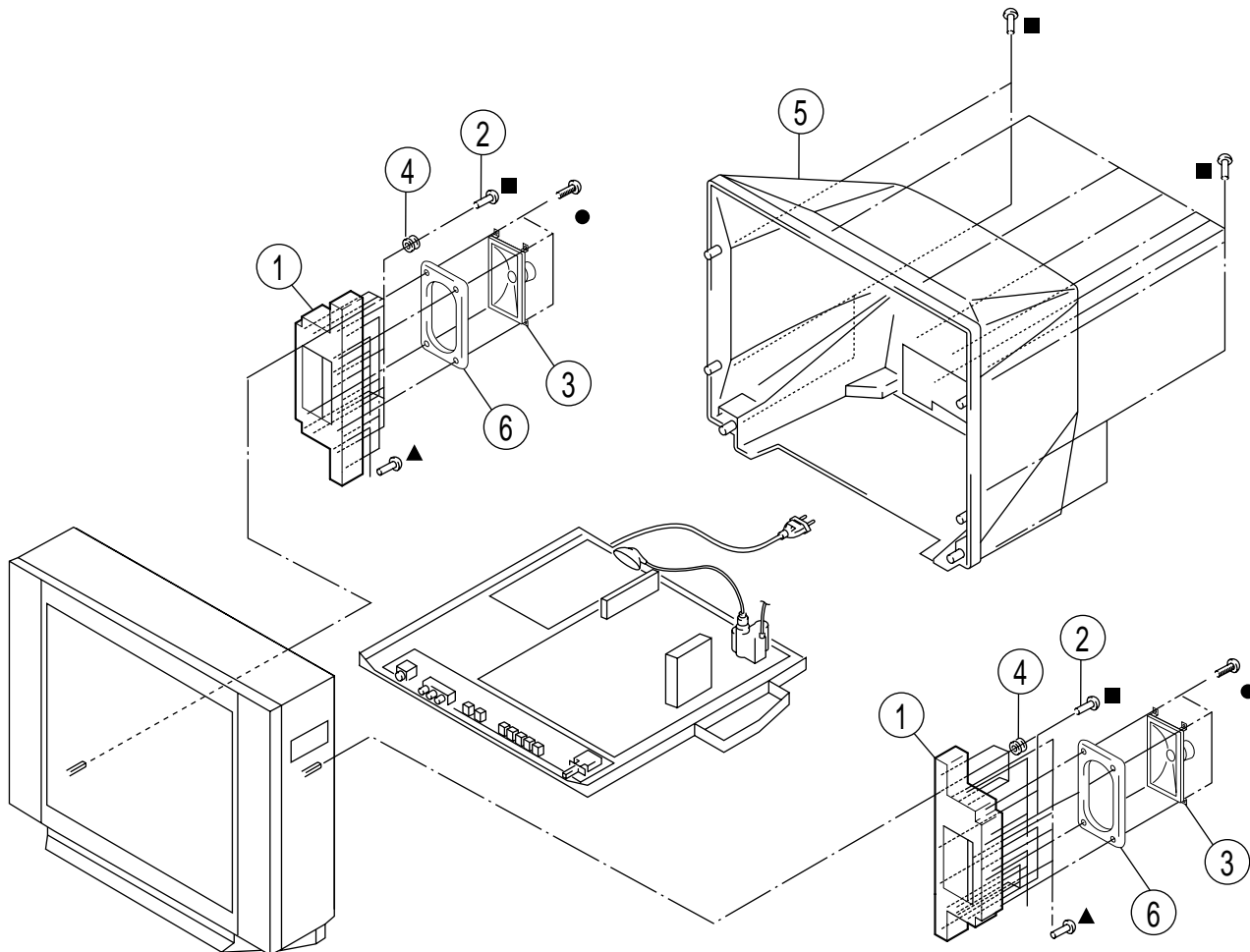
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

6-1. SPEAKER BRACKET

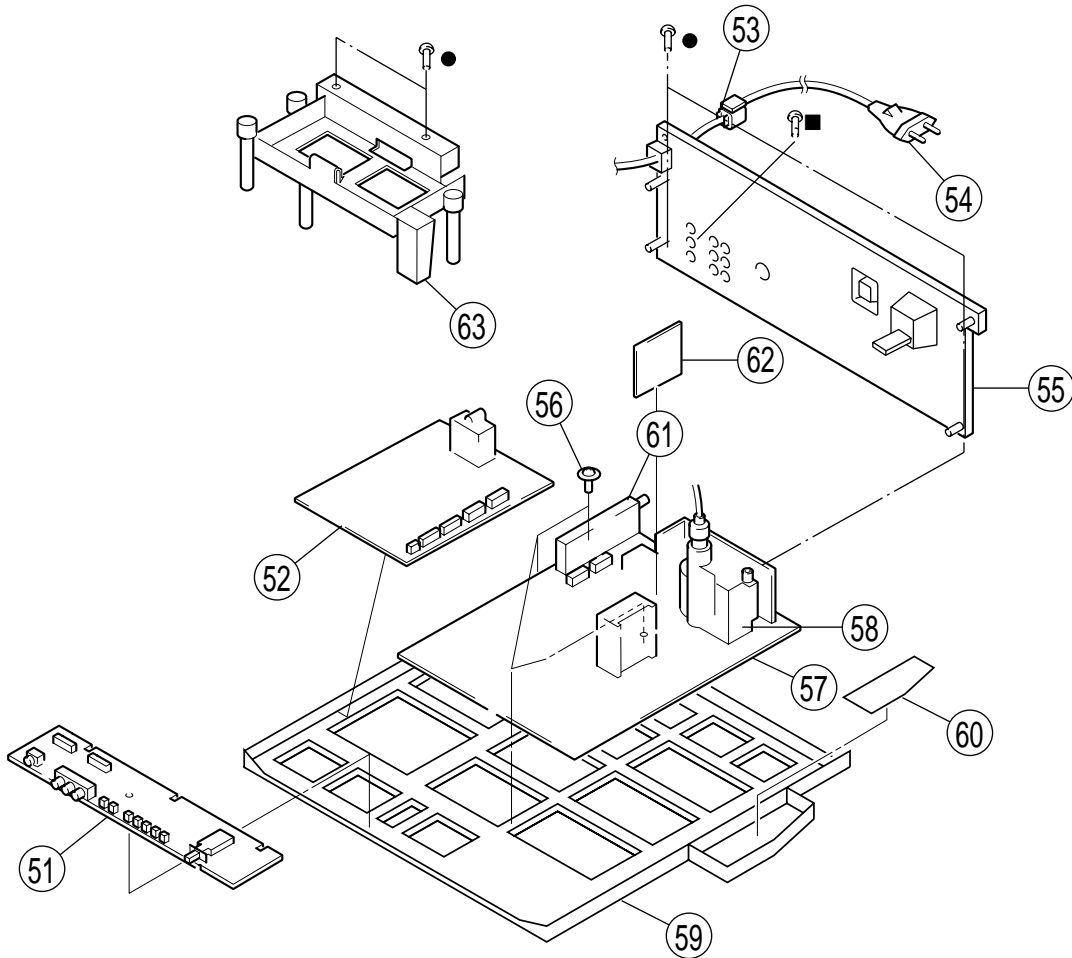
- : 7-685-663-71 SCREW +BVTP 4 × 16
▲: 7-685-650-91 SCREW +BVTP 3 × 16
●: 7-685-648-79 SCREW +BVTP 3 × 12



REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4037-554-01	BRACKET ASSY SPEAKER	
2	4-054-981-01	SCREW, STEP TAPPING	
3	1-529-563-21	SPEAKER (13x7CM)	
4	* 4-379-189-11	CUSHION, SPEAKER	
5	\triangle 4-065-526-02	COVER, REAR (KV-XG29M30/M80)	(■ 11)
	\triangle 4-072-797-01	COVER REAR (KV-XG29M61)	(■ 11)
6	* 4-069-797-21	CUSHION, SPEAKER (S)	

6-2. CHASSIS

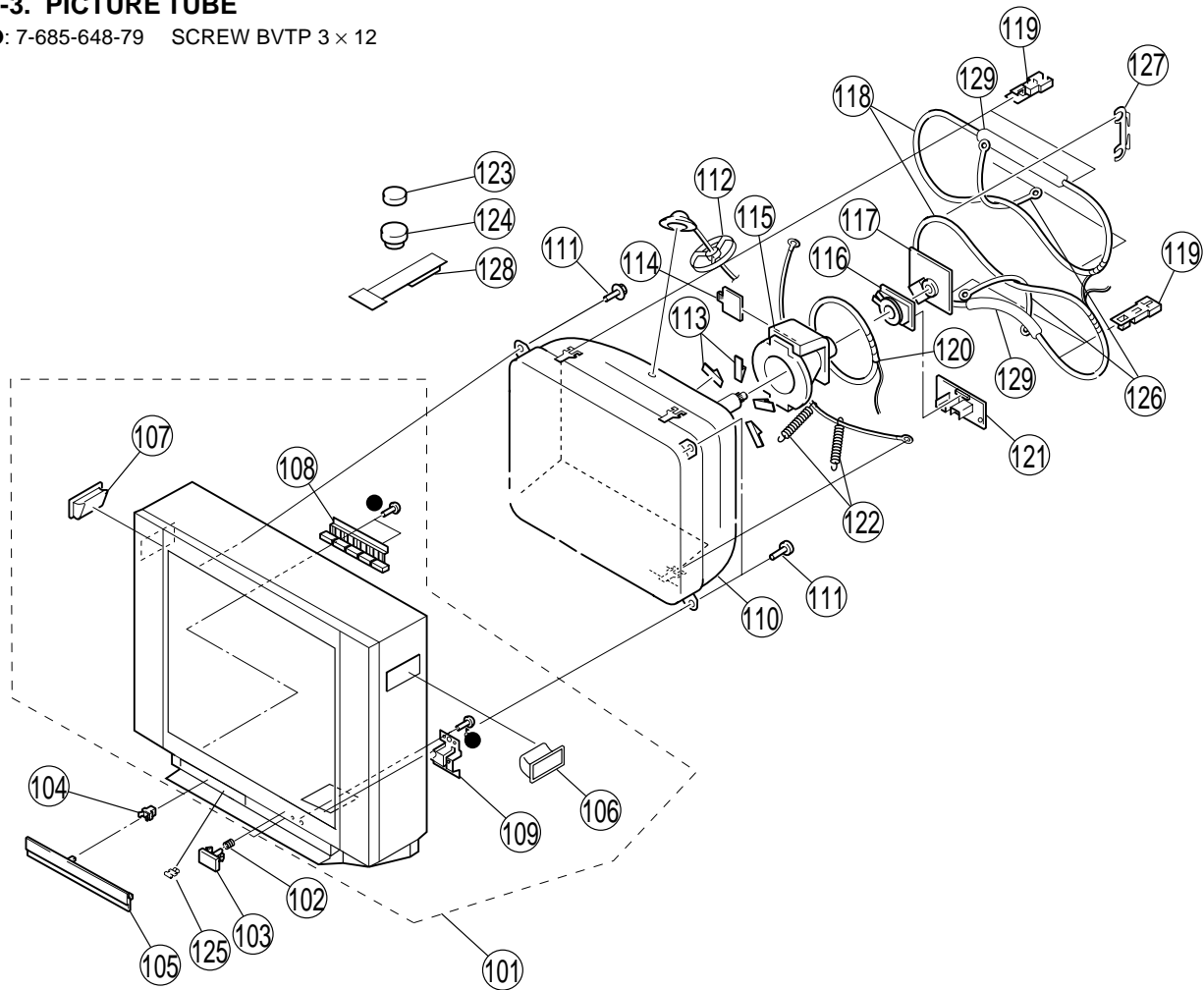
- : 7-685-648-79 SCREW BVTP 3 × 12
■: 7-685-663-79 SCREW BVTP 4 × 16



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1372-918-A	H2 BOARD MOUNTED		58	△ 1-453-297-21	TRANSFORMER ASSY, FLYBACK (NX-4009//M314) (KV-XG29M30)	
52	* A-1136-179-A	B6 BOARD COMPLETE (KV-XG29M30)			△ 1-453-288-11	TRANSFORMER ASSY, FLYBACK (NX-4009//C614) (KV-XG29M61/M80)	
	A-1136-188-A	B6 BOARD COMPLETE (KX-XG29M61)		59	* 4-067-073-03	BRACKET, MAIN	
	A-1136-182-A	B6 BOARD COMPLETE (KX-XG29M80)		60	* A-1333-023-A	D3 BOARD MOUNTED	
53	4-022-115-00	HOLDER, AC CORD		61	8-598-451-20	TUNER, FSS BTF-WG441 (KV-XG29M30)	
54	△ 1-574-358-11	CORD, POWER (WITH CONNECTOR) (KV-XG29M30)			8-598-451-30	TUNER, FSS BTF-WG441 (KV-XG29M61)	
	△ 1-574-062-11	CORD, POWER (WITH CONNECTOR) (KV-XG29M61/M80)			8-598-449-10	TUNER, FSS BTF-LG433 (KV-XG29M80)	
55	4-067-072-61	BRACKET, TERMINAL		62	A-1347-173-A	V1 BOARD COMPLETE (KV-XG29M61 only)	
56	4-046-797-01	SCREW (3X12), (+)BVTAP		63	4-067-075-01	HOLDER, PWB (KV-XG29M61 only)	
57	* A-1299-436-A	A BOARD COMPLETE (KV-XG29M30)					
	A-1299-457-A	A BOARD COMPLETE (KV-XG29M61)					
	A-1299-443-A	A BOARD COMPLETE (KV-XG29M80)					

6-3. PICTURE TUBE

●: 7-685-648-79 SCREW BVTP 3 × 12



REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4038-538-1	BEZNET ASSY (KV-XG29M61/XG29M30)	106 - 109
	X-4037-457-2	BEZNET ASSY (KV-XG29M80)	106 - 109
102	4-036-405-11	SPRING, COMPRESSION	
103	4-065-528-01	BUTTON, POWER	
104	4-047-464-01	CATCHER, PUSH	
105	4-080-707-01	DOOR, CONTROL	
106	4-070-956-01	HANDLE (R) (KV-XG29M30)	
	4-070-957-01	HANDLE (R) (KV-XG29M61/M80)	
107	4-070-956-01	HANDLE (L) (KV-XG29M61/M80)	
	4-070-957-01	HANDLE (L) (KV-XG29M30)	
108	4-065-529-01	BUTTON, CONTROL	
109	* 4-065-530-01	GUIDE, LIGHT	
110	△ 8-735-056-05	PICTURE TUBE (M68LNH070X) (KV-XG29M61)	
	△ 8-735-057-05	PICTURE TUBE (M68LNH070X) (KV-XG29M30/M80)	
111	4-046-765-12	SCREW, TAPPING 7+CROWN WASHER	
112	* 3-704-372-61	HOLDER, HV CABLE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
113	3-703-961-01	SPACER, DY	
114	4-077-228-02	PIECE, TLH CONVENGE	
115	△ 8-451-494-31	DEFLECTION YOKE (Y29RSA-S)	
116	8-453-011-11	NA299-M	
117	* A-1332-149-A	C6 BOARD MOUNTED	
118	△ 1-419-323-11	COIL, DEGAUSING (KV-XG29M30)	
	△ 1-419-294-21	COIL, DEGAUSING (KV-XG29M61/M80)	
119	* 4-062-970-22	CLIP (29RSN), DGC	
120	1-452-896-11	COIL, NA ROTATION (RT200)	
121	* A-1342-594-A	VM1 BOARD MOUNTED	
122	4-369-318-61	SPRING, TENSION	
123	1-452-032-00	MAGNET, DISC	
124	1-452-014-11	CIRCULAR DISC MAGNET B	
125	4-032-761-01	SHAFT (S), DOOR	
126	4-079-376-01	BAND, DGC	
127	4-064-883-03	HOLDER, DGC	
128	X-4387-214-3	PERMALOY ASSY, CORRECTION	
129	4-063-935-21	CUSHION (50 X 550) DGC	

ELECTRICAL PARTS LIST

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NOTE:

The components identified by shading and mark △ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

• All resistors are in ohms
• F : nonflammable

CAPACITORS

• MF : μ F, PF : μ μ F

COILS

• MMH : mH, UH : μ H

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1299-436-A	A BOARD COMPLETE (KV-XG29M30)		C205	1-164-182-11	CERAMIC CHIP 0.0033UF	10.00% 50V
	* A-1299-457-A	A BOARD COMPLETE (KV-XG29M61)		C206	1-164-182-11	CERAMIC CHIP 0.0033UF	10.00% 50V
	* A-1299-443-A	A BOARD COMPLETE (KV-XG29M80)		C207	1-136-161-00	FILM 0.047UF	5.00% 50V

	* 4-040-983-31	TERMINAL BOARD (D)		C208	1-126-965-11	ELECT 22UF	20.00% 50V
	* 4-374-846-01	COVER, CAPACITOR, CAP TYPE		C209	1-126-965-11	ELECT 22UF	20.00% 50V
	4-382-854-11	SCREW (M3X10), P, SW (+)		C210	1-126-933-11	ELECT 100UF	20.00% 16V
	4-382-854-21	SCREW (M3X14), P, SW (+)		C211	1-126-941-11	ELECT 470UF	20.00% 25V
				C212	1-126-933-11	ELECT 100UF	20.00% 16V
		<CAPACITOR>					
C004	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V	C213	1-126-933-11	ELECT 100UF	20.00% 16V
C005	1-163-001-11	CERAMIC CHIP 220PF	10.00% 50V	C214	1-126-942-61	ELECT 1000UF	20.00% 25V
C006	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C215	1-126-942-61	ELECT 1000UF	20.00% 25V
C007	1-104-664-11	ELECT 47UF	20.00% 16V	C216	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V
C013	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C217	1-126-964-11	ELECT 10UF	20.00% 50V
C014	1-104-664-11	ELECT 47UF	20.00% 25V	C218	1-136-167-00	FILM 0.15UF	5.00% 50V
C015	1-163-009-11	CERAMIC CHIP 0.001UF	10.00% 50V	C219	1-136-167-00	FILM 0.15UF	5.00% 50V
C016	1-163-243-11	CERAMIC CHIP 47PF	5.00% 50V	C220	1-126-942-61	ELECT 1000UF	20.00% 25V
C017	1-163-113-00	CERAMIC CHIP 68PF	5.00% 50V	C221	1-126-964-11	ELECT 10UF	20.00% 50V
C019	1-104-664-11	ELECT 47UF	20.00% 25V	C223	1-126-965-11	ELECT 22UF	20.00% 50V
C022	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C224	1-163-133-00	CERAMIC CHIP 470PF	5.00% 50V
C023	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C225	1-109-982-11	CERAMIC CHIP 1UF	10.00% 10V
C024	1-163-227-11	CERAMIC CHIP 10PF	0.50PF 50V	C226	1-109-982-11	CERAMIC CHIP 1UF	10.00% 10V
C026	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C264	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C027	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C265	1-164-505-11	CERAMIC CHIP 2.2UF	16V
C028	1-163-037-11	CERAMIC CHIP 0.022UF	10.00% 50V	C301	1-126-935-11	ELECT 470UF	20.00% 16V
C030	1-126-965-11	ELECT 22UF	20.00% 50V	C302	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C031	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C303	1-126-964-11	ELECT 10UF	20.00% 50V
C032	1-107-823-11	CERAMIC CHIP 0.47UF	10.00% 16V	C304	1-126-967-11	ELECT 47UF	20.00% 50V
C041	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C305	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C042	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C306	1-163-233-11	CERAMIC CHIP 18PF	5.00% 50V
C044	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C307	1-163-233-11	CERAMIC CHIP 18PF	5.00% 50V
C047	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C308	1-163-259-91	CERAMIC CHIP 220PF	5.00% 50V
C055	1-163-251-11	CERAMIC CHIP 100PF	5.00% 50V	C309	1-137-378-11	MYLAR 0.22UF	5.00% 50V
C103	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V	C310	1-126-963-11	ELECT 4.7UF	20.00% 50V
C104	1-104-665-11	ELECT 100UF	20.00% 10V	C311	1-126-964-11	ELECT 10UF	20.00% 50V
C107	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C316	1-126-934-11	ELECT 220UF	20.00% 16V
C108	1-104-664-11	ELECT 47UF	20.00% 16V	C317	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C109	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C318	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C110	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C319	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C111	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V	C320	1-163-031-11	CERAMIC CHIP 0.01UF	50V
C112	1-104-664-11	ELECT 47UF	20.00% 16V	C322	1-163-005-11	CERAMIC CHIP 470PF	10.00% 50V
C113	1-104-664-11	ELECT 47UF	20.00% 25V	C324	1-163-017-00	CERAMIC CHIP 0.0047UF	10.00% 50V
C114	1-126-967-11	ELECT 47UF	20.00% 50V	C325	1-126-960-11	ELECT 1UF	20.00% 50V
C202	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C327	1-126-965-11	ELECT 22UF	20.00% 50V
C203	1-163-021-91	CERAMIC CHIP 0.01UF	10.00% 50V	C328	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
C204	1-136-161-00	FILM 0.047UF	5.00% 50V	C329	1-126-965-11	ELECT 22UF	20.00% 50V
				C330	1-164-004-11	CERAMIC CHIP 0.1UF	10.00% 25V
				C331	1-126-963-11	ELECT 4.7UF	20.00% 50V
				C332	1-126-963-11	ELECT 4.7UF	20.00% 50V

The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION		REMARK
C335	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C336	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C337	1-126-961-11	ELECT	2.2UF	20.00% 50V
C338	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C341	1-115-340-11	CERAMIC CHIP	0.22UF	10.00% 25V
C342	1-163-259-91	CERAMIC CHIP	220PF	5.00% 50V
C347	1-126-933-11	ELECT	100UF	20.00% 16V
C348	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C349	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C350	1-216-295-11	SHORT	0	
C351	1-126-964-11	ELECT	10UF	20.00% 50V
C352	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C353	1-126-960-11	ELECT	1UF	20.00% 50V
C356	1-126-960-11	ELECT	1UF	20.00% 50V
C357	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C502	1-163-145-00	CERAMIC CHIP	0.0015UF	5.00% 50V
C503	1-126-964-11	ELECT	10UF	20.00% 50V
C506	1-107-638-11	ELECT	33UF	20.00% 160V
C507	1-161-830-00	CERAMIC	0.0047UF	500V
C510	1-102-112-00	CERAMIC	330PF	10.00% 50V
C512	1-163-989-11	CERAMIC CHIP	0.033UF	10.00% 25V
C513	1-163-263-11	CERAMIC CHIP	330PF	5.00% 50V
C514	1-106-383-00	MYLAR	0.047UF	10.00% 200V
C517	1-164-182-11	CERAMIC CHIP	0.0033UF	10.00% 50V
C518	1-104-665-11	ELECT	100UF	20.00% 10V
C519	1-102-212-00	CERAMIC	820PF	10.00% 500V
C521	1-126-934-11	ELECT	220UF	20.00% 16V
C522	1-126-933-11	ELECT	100UF	20.00% 16V
C523	1-102-002-00	CERAMIC	680PF	10.00% 500V
C524	1-126-967-11	ELECT	47UF	20.00% 50V
C526	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C527	1-102-820-00	CERAMIC	330PF	5.00% 50V
C528	1-162-116-00	CERAMIC	680PF	10.00% 2KV
C530	1-137-372-11	MYLAR	0.022UF	5.00% 50V
C531	1-107-903-11	ELECT	2.2UF	20.00% 50V
C532	1-126-941-11	ELECT	470UF	20.00% 25V
C533	1-126-941-11	ELECT	470UF	20.00% 25V
C534	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C536	1-136-165-00	FILM	0.1UF	5.00% 50V
C537	1-126-969-11	ELECT	220UF	20.00% 50V
C538	1-127-717-11	FILM	19000PF	3% 1.2KV
C539	1-129-723-00	FILM	0.056UF	5.00% 630V
C540	1-136-171-00	FILM	0.33UF	5.00% 50V
C546	1-165-319-11	CERAMIC CHIP	0.1UF	50V
C549	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C550	1-106-220-00	MYLAR	0.1UF	10.00% 100V
C551	1-126-960-11	ELECT	1UF	20.00% 50V
C552	1-162-116-00	CERAMIC	680PF	10.00% 2KV
C553	1-162-116-00	CERAMIC	680PF	10.00% 2KV
C554	1-137-417-11	MYLAR	0.0047UF	10.00% 200V
C556	1-126-941-11	ELECT	470UF	20.00% 25V
C557	1-126-941-11	ELECT	470UF	20.00% 25V
C558	1-123-024-21	ELECT	33UF	160V
C560	1-102-228-00	CERAMIC	470PF	10.00% 500V
C561	1-129-898-00	FILM	0.0022UF	5.00% 630V
C562	1-102-228-00	CERAMIC	470PF	10.00% 500V
C564	1-163-038-11	CERAMIC CHIP	0.1UF	25V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C565	1-107-655-11	ELECT	47UF	20.00% 250V
C566	1-102-244-00	CERAMIC	220PF	10.00% 500V
C567	1-115-520-11	FILM	0.68UF	5.00% 250V
C568	1-102-228-00	CERAMIC	470PF	10.00% 500V
C570	1-115-522-11	FILM	1UF	5.00% 250V
C572	1-117-661-21	FILM	0.15UF	5.00% 250V
C573	1-106-387-00	MYLAR	0.068UF	10.00% 200V
C574	1-104-709-11	ELECT	4.7UF	160V
C576	1-130-495-00	MYLAR	0.1UF	5.00% 50V
C577	1-106-395-00	MYLAR	0.15UF	10.00% 200V
C582	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C584	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C586	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C600	Δ 1-104-705-11	MYLAR	0.1UF	20.00% 250V
C602	Δ 1-104-705-11	MYLAR	0.1UF	20.00% 250V
C603	1-104-664-11	ELECT	47UF	20.00% 25V
C604	1-163-009-11	CERAMIC CHIP	0.001UF	10.00% 50V
C605	Δ 1-119-886-51	CERAMIC	470PF	10.00% 250V
C606	Δ 1-119-886-51	CERAMIC	470PF	10.00% 250V
C607	1-161-830-00	CERAMIC	0.0047UF	99% 500V
C608	1-161-830-00	CERAMIC	0.0047UF	99% 500V
C609	1-126-968-11	ELECT	100UF	20.00% 50V
C610	1-126-964-11	ELECT	10UF	20.00% 50V
C611	1-161-830-00	CERAMIC	0.0047UF	99% 500V
C612	1-161-830-00	CERAMIC	0.0047UF	99% 500V
C613	1-125-906-11	ELECT	560UF	20.00% 450V
C614	1-126-964-11	ELECT	10UF	20.00% 50V
C615	Δ 1-119-886-51	CERAMIC	470PF	10.00% 250V
C616	1-130-202-00	FILM	0.022UF	5.00% 400V
C617	1-107-792-11	CERAMIC	100PF	5.00% 1KV
C618	1-125-893-11	FILM	680PF	3.00% 1.5KV
C619	Δ 1-119-886-51	CERAMIC	470PF	10.00% 250V
C620	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C621	1-102-114-00	CERAMIC	470PF	10.00% 50V
C622	1-102-119-00	CERAMIC	0.0015UF	10.00% 50V
C623	1-104-665-11	ELECT	100UF	20.00% 25V
C624	1-125-772-91	CERAMIC	1500PF	10.00% 2KV
C625	1-102-002-00	CERAMIC	680PF	10.00% 500V
C626	1-102-002-00	CERAMIC	680PF	10.00% 500V
C628	1-126-942-61	ELECT	1000UF	20.00% 25V
C629	1-126-964-11	ELECT	10UF	20.00% 50V
C630	1-125-494-11	ELECT(BLOCK)	560UF	20.00% 160V
C632	1-128-339-11	ELECT	2200UF	20.00% 16V
C633	1-104-999-11	MYLAR	0.1UF	10.00% 200V
C634	1-126-933-11	ELECT	100UF	20.00% 16V
C635	1-104-665-11	ELECT	100UF	20.00% 10V
C636	1-104-760-11	CERAMIC CHIP	0.047UF	10.00% 50V
C641	1-102-002-00	CERAMIC	680PF	10.00% 500V
C642	1-126-943-11	ELECT	2200UF	20.00% 25V
C643	1-104-665-11	ELECT	100UF	20.00% 10V
C644	1-104-331-11	CERAMIC	0.0022UF	10.00% 1KV
C645	1-137-605-11	MYLAR	0.01UF	10.00% 250V
C646	1-107-679-91	ELECT	10UF	20.00% 450V
C647	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V
C649	1-126-940-11	ELECT	330UF	20.00% 25V
C650	1-163-275-11	CERAMIC CHIP	0.001UF	5.00% 50V
C651	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C652	1-126-965-11	ELECT	22UF	20.00% 50V

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The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C653	1-104-664-11	ELECT	47UF 20.00% 25V	D505	8-719-988-61	1SS355TE-17	
C655 \triangle	1-119-886-51	CERAMIC	470PF 10.00% 250V	D506	8-719-911-19	1SS119-25	
C657	1-101-821-00	CERAMIC	0.0022UF 500V	D507	8-719-988-61	1SS355TE-17	
C901	1-136-153-00	FILM	0.01UF 5.00% 50V	D508	8-719-988-61	1SS355TE-17	
C902	1-136-153-00	FILM	0.01UF 5.00% 50V	D509	1-216-073-00	RES-CHIP 10K 5% 1/10W	
C912	1-164-004-11	CERAMIC CHIP	0.1UF 10.00% 25V	D510	8-719-988-61	1SS355TE-17	
C913	1-104-665-11	ELECT	100UF 20.00% 10V	D511	8-719-988-61	1SS355TE-17	
		<CONNECTOR>		D512	8-719-988-61	1SS355TE-17	
CN101 *	1-764-333-11	PLUG, CONNECTOR 10P		D513	8-719-908-03	GP08D	
CN102	1-564-507-11	PLUG, CONNECTOR 4P		D517	8-719-312-71	RS3FS	
CN104	1-695-915-11	TAB (CONTACT)		D518	8-719-074-35	RU4AM-T4	
CN106	1-564-506-11	PLUG, CONNECTOR 3P		D519	8-719-312-71	RS3FS	
CN202 *	1-508-847-00	PIN, CONNECTOR 4P		D521	8-719-302-43	EL1Z	
CN205 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D522	8-719-028-45	D2L20U	
CN301 *	1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-XG29M61 ONLY)		D523	8-719-302-43	EL1Z	
CN305	1-564-509-11	PLUG, CONNECTOR 6P		D527	8-719-908-03	GP08D	
CN307 *	1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-XG29M61 ONLY)		D528	8-719-908-03	GP08D	
CN501 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D532	8-719-988-61	1SS355TE-17	
CN502 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D534	8-719-988-61	1SS355TE-17	
CN503 *	1-564-510-11	PLUG, CONNECTOR 7P		D600	8-719-911-19	1SS119-25	
CN504	1-695-915-11	TAB (CONTACT)		D602	8-719-911-19	1SS119-25	
CN505 *	1-564-508-11	PLUG, CONNECTOR 5P		D603	8-719-150-92	RD33EB3T	
CN507 *	1-564-509-11	PLUG, CONNECTOR 6P		D604	8-719-028-72	RGP02-17EL-6433	
CN601	1-580-843-11	PIN, CONNECTOR (POWER)		D605	8-719-510-22	D3SB60	
CN602 *	1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		D606	8-719-108-18	5P-6M	
CN603 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D607	8-719-073-01	MA111-(K8).S0	
CN604 *	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P (KV-XG29M61/XG29M80)		D608	8-719-110-53	RD20ES-B2	
CN604 *	1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P (KV-XG29M30 ONLY)		D609	8-719-311-31	RU-1P	
CN901	1-564-509-11	PLUG, CONNECTOR 6P		D610	8-719-043-76	AK04V0	
CN904 *	1-564-512-11	PLUG, CONNECTOR 9P		D611	8-719-046-74	AU-01Z-V1	
		<DIODE>		D613	8-719-046-74	AU-01Z-V1	
D001	8-719-988-61	1SS355TE-17		D614	8-719-046-74	AU-01Z-V1	
D005	8-719-988-61	1SS355TE-17		D615	8-719-074-35	RU4AM-T4	
D006	8-719-988-61	1SS355TE-17		D616	8-719-067-18	RN4Z	
D100	8-719-073-01	MA111-(K8).S0 (KV-XG29M30/XG29M61)		D617	8-719-073-84	31DQ06-FC5	
D203	8-719-914-42	DA204K		D620	8-719-110-72	RD30ESB2	
D300	1-216-295-11	SHORT 0		D623	8-719-978-65	DTZ-TT11-15B	
D301	8-719-988-61	1SS355TE-17		D624	8-719-073-01	MA111-(K8).S0	
D306	8-719-988-61	1SS355TE-17		D625	8-719-977-28	DTZ10B	
D307	8-719-988-61	1SS355TE-17		D627	8-719-073-84	31DQ06-FC5	
D308	8-719-988-61	1SS355TE-17		D628	8-719-911-19	1SS119-25	
D309	8-719-069-54	UDZS-TE17-5.1B		D631	8-719-068-00	ERC04-06SE	
D311	8-719-988-61	1SS355TE-17		D632	8-719-068-00	ERC04-06SE	
D312	8-719-988-61	1SS355TE-17		D633	8-719-948-45	ERA22-08	
D313	8-719-988-61	1SS355TE-17		D634	8-719-073-01	MA111-(K8).S0	
D314	8-719-988-61	1SS355TE-17		D635	8-719-073-01	MA111-(K8).S0	
D315	8-719-988-61	1SS355TE-17		D636	8-719-510-02	D1NS4	
D316	8-719-037-06	RD7.5SB1-T1		D637	8-719-109-96	RD6.8ES-B1	
D320	8-719-069-60	UDZS-TE17-9.1B		D638	8-719-510-48	D1N20R	
D321	8-719-069-60	UDZS-TE17-9.1B				<CONNECTOR>	
D504	8-719-302-43	EL1Z		DY1	* 1-580-798-11	CONNECTOR PIN (DY) 6P	
						<FERRITE BEAD>	
				FB300	1-410-397-21	FERRITE 1.1UH	
				FB501	1-410-397-21	FERRITE 1.1UH	

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

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REF. NO.	PART NO.	DESCRIPTION	REMARK
FB502	1-410-397-21	FERRITE	1.1UH
FB600	1-410-397-21	FERRITE	1.1UH
FB601	1-410-397-21	FERRITE	1.1UH
FB602	1-410-397-21	FERRITE	1.1UH
FB603	1-410-397-21	FERRITE	1.1UH
FB604	1-412-911-31	FERRITE	0UH
FB605	1-406-656-21	INDUCTOR	3.3UH
FB606	1-412-911-31	FERRITE	0UH
FB608	1-412-911-31	FERRITE	0UH
FB611	1-410-397-21	FERRITE	1.1UH
FB612	1-410-397-21	FERRITE	1.1UH
FB613	1-410-397-21	FERRITE	1.1UH
FB615	1-412-911-31	FERRITE	0UH
<IC>			
IC001	8-752-917-82	CXP86449-630S	
IC002	8-759-371-21	MM1319AFBE	
IC003	8-759-672-78	M24C08-BN6(A)	
IC100	8-759-042-02	S-80743AL-A7-S (KV-XG29M30/XG29M61 ONLY)	
IC201	8-759-336-30	TA8223K	
IC301	8-752-095-72	CXA2159S	
IC302	8-759-672-27	TDA9183T	
IC502	8-759-700-07	NJM2903M	
IC503	8-759-980-58	TDA8172	
IC601	8-749-014-48	STR-F6656	
IC602	8-749-920-61	SE-135N	
IC603	8-759-701-59	NJM78M09FA	
IC604	8-759-231-53	TA7805S	
<CHIP CONDUCTOR>			
JR001	1-216-295-11	SHORT	0
JR002	1-216-295-11	SHORT	0
JR003	1-216-295-11	SHORT	0
JR004	1-216-295-11	SHORT	0
JR006	1-216-295-11	SHORT	0
JR007	1-216-295-11	SHORT	0
JR008	1-216-295-11	SHORT	0
JR010	1-216-295-11	SHORT	0
JR012	1-216-295-11	SHORT	0
JR014	1-216-295-11	SHORT	0
JR015	1-216-295-11	SHORT	0
JR016	1-216-295-11	SHORT	0
JR019	1-216-295-11	SHORT	0
JR020	1-216-295-11	SHORT	0
JR022	1-216-295-11	SHORT	0
JR023	1-216-295-11	SHORT	0
JR024	1-216-295-11	SHORT	0
JR025	1-216-295-11	SHORT	0
JR028	1-216-295-11	SHORT	0
JR102	1-216-295-11	SHORT	0
JR107	1-216-295-11	SHORT	0
		(KV-XG29M30/XG29M61 ONLY)	
JR109	1-216-295-11	SHORT	0 (KV-XG29M80 ONLY)
JR202	1-216-295-11	SHORT	0
JR204	1-216-295-11	SHORT	0
JR214	1-216-295-11	SHORT	0

REF. NO.	PART NO.	DESCRIPTION	REMARK
JR300	1-216-295-11	SHORT	0
JR304	1-216-295-11	SHORT	0
JR308	1-216-295-11	SHORT	0
JR311	1-216-295-11	SHORT	0
JR312	1-216-295-11	SHORT	0
JR400	1-216-295-11	SHORT	0
JR500	1-216-295-11	SHORT	0
JR501	1-216-295-11	SHORT	0
JR502	1-216-295-11	SHORT	0
JR503	1-216-295-11	SHORT	0
JR505	1-216-295-11	SHORT	0
JR600	1-216-295-11	SHORT	0
<COIL>			
L002	1-414-856-11	INDUCTOR	10UH
L003	1-414-180-11	INDUCTOR	3.3UH
L005	1-414-233-22	FERRITE	0UH
L101	1-414-856-11	INDUCTOR	10UH
L102	1-414-856-11	INDUCTOR	10UH
L103	1-414-856-11	INDUCTOR	10UH
L104	1-414-856-11	INDUCTOR	10UH
L105	1-414-856-11	INDUCTOR	10UH
L301	1-414-189-31	INDUCTOR	100UH
L302	1-414-185-41	INDUCTOR	22UH
L303	1-414-189-31	INDUCTOR	100UH
L304	1-414-189-31	INDUCTOR	100UH
L501	1-412-525-31	INDUCTOR	10UH
L502	1-416-947-11	COIL, AIR-CORE	
L503	1-412-525-31	INDUCTOR	10UH
L504	1-412-525-31	INDUCTOR	10UH
L507	1-459-111-00	INDUCTOR	10MH
L511	1-406-977-71	INDUCTOR	0UH
L513	1-412-551-31	INDUCTOR	1.5MH
L515	1-459-104-00	COIL, WITH CORE	
L518	1-414-187-11	INDUCTOR	47UH
L601	1-412-527-11	INDUCTOR	15UH
L901	1-408-603-31	INDUCTOR	10UH
L902	1-408-603-31	INDUCTOR	10UH
L905	1-414-856-11	INDUCTOR	10UH
<PHOTO COUPLER>			
PH600 \triangle	8-749-924-35	ON3171-R	
<IC LINK>			
PS200	1-532-675-21	LINK, IC 1.5A/150V	
<TRANSISTOR>			
Q002	8-729-230-49	2SC2712-YG	
Q101	8-729-230-49	2SC2712-YG	
Q201	8-729-424-67	UN2216	
Q202	8-729-424-67	UN2216	
Q205	8-729-421-19	UN2213	
Q206	8-729-421-19	UN2213	
Q207	8-729-421-19	UN2213	

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REF. NO.	PART NO.	DESCRIPTION	REMARK
Q301	8-729-216-22	2SA1162-G	
Q302	8-729-230-49	2SC2712-YG	
Q303	8-729-216-22	2SA1162-G	
Q305	8-729-216-22	2SA1162-G	
Q306	8-729-230-49	2SC2712-YG	
Q307	8-729-230-49	2SC2712-YG	
Q308	8-729-216-22	2SA1162-G	
Q312	8-729-216-22	2SA1162-G	
Q313	8-729-230-49	2SC2712-YG	
Q314	8-729-216-22	2SA1162-G	
Q315	8-729-421-19	UN2213	
Q501	8-729-216-22	2SA1162-G	
Q502	8-729-216-22	2SA1162-G	
Q503	8-729-230-49	2SC2712-YG	
Q505	8-729-931-45	IRF614	
Q506	8-729-119-80	2SC2688-LK	
Q507	8-729-216-22	2SA1162-G	
Q509	8-729-230-49	2SC2712-YG	
Q511	8-729-048-07	2SD2578-CA	
Q600	8-729-119-78	2SC2785-HFE	
Q601	8-729-023-22	2SD2114K	
Q602	8-729-230-49	2SC2712-YG	
Q603	8-729-424-08	UN2111	
Q604	8-729-200-17	2SA1091-O	
Q605	8-729-044-30	2SK2845-LB102	
Q606	8-729-230-49	2SC2712-YG	
Q607	8-729-922-37	2SD2144S-UVW	
Q608	8-729-230-49	2SC2712-YG	
<RESISTOR>			
R001	1-414-233-22	FERRITE	0UH
R002	1-216-025-11	RES-CHIP	100 5% 1/10W
R003	1-216-073-00	RES-CHIP	10K 5% 1/10W
R004	1-216-025-11	RES-CHIP	100 5% 1/10W
R005	1-216-025-11	RES-CHIP	100 5% 1/10W
R008	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R010	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R011	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R012	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R013	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R014	1-216-025-11	RES-CHIP	100 5% 1/10W
R015	1-216-025-11	RES-CHIP	100 5% 1/10W
R017	1-216-049-11	RES-CHIP	1K 5% 1/10W
R018	1-216-033-00	RES-CHIP	220 5% 1/10W
R019	1-216-073-00	RES-CHIP	10K 5% 1/10W
R020	1-216-045-00	RES-CHIP	680 5% 1/10W
R021	1-216-073-00	RES-CHIP	10K 5% 1/10W
R022	1-216-025-11	RES-CHIP	100 5% 1/10W
R024	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R025	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R026	1-216-063-91	RES-CHIP	3.9K 5% 1/10W
R027	1-216-073-00	RES-CHIP	10K 5% 1/10W
R028	1-216-073-00	RES-CHIP	10K 5% 1/10W
(KV-XG29M30/XG29M61 ONLY)			
R029	1-216-049-11	RES-CHIP	1K 5% 1/10W
R031	1-216-049-11	RES-CHIP	1K 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R034	1-216-049-11	RES-CHIP	1K 5% 1/10W
R035	1-216-025-11	RES-CHIP	100 5% 1/10W
R036	1-216-025-11	RES-CHIP	100 5% 1/10W
R037	1-216-025-11	RES-CHIP	100 5% 1/10W
R040	1-216-025-11	RES-CHIP	100 5% 1/10W
R041	1-216-025-11	RES-CHIP	100 5% 1/10W
R042	1-216-295-11	SHORT	0
R043	1-216-049-11	RES-CHIP	1K 5% 1/10W
R044	1-216-025-11	RES-CHIP	100 5% 1/10W
R045	1-414-233-22	FERRITE	0UH
R046	1-216-049-11	RES-CHIP	1K 5% 1/10W
R047	1-414-233-22	FERRITE	0UH
R048	1-216-073-00	RES-CHIP	10K 5% 1/10W
R050	1-216-073-00	RES-CHIP	10K 5% 1/10W
R053	1-216-049-11	RES-CHIP	1K 5% 1/10W
R058	1-216-295-11	SHORT	0
R059	1-216-295-11	SHORT	0
R060	1-216-295-11	SHORT	0
R061	1-216-033-00	RES-CHIP	220 5% 1/10W
R062	1-216-041-00	RES-CHIP	470 5% 1/10W
R063	1-216-041-00	RES-CHIP	470 5% 1/10W
R064	1-216-041-00	RES-CHIP	470 5% 1/10W
R065	1-216-041-00	RES-CHIP	470 5% 1/10W
R066	1-216-049-11	RES-CHIP	1K 5% 1/10W
R067	1-216-049-11	RES-CHIP	1K 5% 1/10W
R068	1-216-041-00	RES-CHIP	470 5% 1/10W
R101	1-216-025-11	RES-CHIP	100 5% 1/10W
(KV-XG29M30/XG29M61 ONLY)			
R102	1-216-025-11	RES-CHIP	100 5% 1/10W
(KV-XG29M30/XG29M61 ONLY)			
R105	1-216-295-11	SHORT	0
R109	1-216-041-00	RES-CHIP	470 5% 1/10W
R111	1-216-025-11	RES-CHIP	100 5% 1/10W
R112	1-216-025-11	RES-CHIP	100 5% 1/10W
R113	1-216-047-91	RES-CHIP	820 5% 1/10W
R202	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R203	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R204	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R205	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R206	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R207	1-216-053-00	RES-CHIP	1.5K 5% 1/10W
R208	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R209	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R210	1-216-031-00	RES-CHIP	180 5% 1/10W
R212	1-216-031-00	RES-CHIP	180 5% 1/10W
R225	1-216-033-00	RES-CHIP	220 5% 1/10W
R226	1-216-033-00	RES-CHIP	220 5% 1/10W
R227	1-216-033-00	RES-CHIP	220 5% 1/10W
R228	1-249-389-11	CARBON	4.7 5% 1/4W
R229	1-216-073-00	RES-CHIP	10K 5% 1/10W
R230	1-216-073-00	RES-CHIP	10K 5% 1/10W
R231	1-216-295-11	SHORT	0
R234	1-249-389-11	CARBON	4.7 5% 1/4W
R237	1-216-308-00	RES-CHIP	4.7 5% 1/10W
R301	1-216-073-00	RES-CHIP	10K 5% 1/10W
R302	1-216-295-11	SHORT	0
R303	1-216-049-11	RES-CHIP	1K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R304	1-216-073-00	RES-CHIP	10K 5% 1/10W	R385	1-216-033-00	RES-CHIP	220 5% 1/10W
R305	1-216-051-00	RES-CHIP	1.2K 5% 1/10W	R391	1-216-049-11	RES-CHIP	1K 5% 1/10W
R306	1-216-085-00	RES-CHIP	33K 5% 1/10W	R500	1-249-417-11	CARBON	1K 5% 1/4W
R308	1-216-025-11	RES-CHIP	100 5% 1/10W	R501	1-216-049-11	RES-CHIP	1K 5% 1/10W
R309	1-216-025-11	RES-CHIP	100 5% 1/10W	R505	1-216-699-91	METAL CHIP	100K 0.5% 1/10W
R310	1-216-025-11	RES-CHIP	100 5% 1/10W	R506	1-216-081-00	RES-CHIP	22K 5% 1/10W
R311	1-216-041-00	RES-CHIP	470 5% 1/10W	R507	1-249-389-11	CARBON	4.7 5% 1/4W
R312	1-216-039-00	RES-CHIP	390 5% 1/10W	R508	1-216-471-11	METAL OXIDE	27 5% 3W
R313	1-216-037-00	RES-CHIP	330 5% 1/10W	R509	1-216-473-11	METAL OXIDE	56 5% 3W
R314	1-216-083-00	RES-CHIP	27K 5% 1/10W	R510	1-216-449-11	METAL OXIDE	56 5% 2W
R316	1-216-037-00	RES-CHIP	330 5% 1/10W	R511	1-215-908-00	METAL OXIDE	33 5% 3W
R317	1-216-091-00	RES-CHIP	56K 5% 1/10W	R515	1-215-911-11	METAL OXIDE	100 5% 3W
R318	1-216-039-00	RES-CHIP	390 5% 1/10W	R517	1-208-798-11	METAL CHIP	4.7K 0.5% 1/10W
R319	1-216-025-11	RES-CHIP	100 5% 1/10W	R518	1-247-807-31	CARBON	100 5% 1/4W
R320	1-216-065-91	RES-CHIP	4.7K 5% 1/10W	R519	1-215-913-11	METAL OXIDE	220 5% 3W
R321	1-216-073-00	RES-CHIP	10K 5% 1/10W	R520	1-215-445-00	METAL	10K 1% 1/4W
R322	1-216-033-00	RES-CHIP	220 5% 1/10W	R522	1-208-806-11	METAL CHIP	10K 0.5% 1/10W
R325	1-216-041-00	RES-CHIP	470 5% 1/10W	R523	1-249-411-11	CARBON	330 5% 1/4W
R326	1-216-295-11	SHORT	0	R525	1-208-846-11	METAL CHIP	470K 0.5% 1/10W
R331	1-216-295-11	SHORT	0	R526	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R332	1-216-033-00	RES-CHIP	220 5% 1/10W	R527	1-216-001-00	RES-CHIP	10 5% 1/10W
R333	1-216-083-00	RES-CHIP	27K 5% 1/10W	R528	1-208-814-91	METAL CHIP	22K 0.5% 1/10W
R334	1-216-133-00	RES-CHIP	3.3M 5% 1/10W	R529	1-216-635-11	METAL CHIP	220 0.5% 1/10W
R335	1-216-045-00	RES-CHIP	680 5% 1/10W	R531	1-247-843-11	CARBON	3.3K 5% 1/4W
R338	1-216-037-00	RES-CHIP	330 5% 1/10W	R533	1-249-417-11	CARBON	1K 5% 1/4W
R340	1-216-025-11	RES-CHIP	100 5% 1/10W	R534	1-216-364-21	METAL OXIDE	0.39 5% 2W
R345	1-216-081-00	RES-CHIP	22K 5% 1/10W	R535	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R348	1-208-806-11	METAL CHIP	10K 0.5% 1/10W	R536	1-216-067-00	RES-CHIP	5.6K 5% 1/10W
R349	1-216-073-00	RES-CHIP	10K 5% 1/10W	R537	1-208-804-11	METAL CHIP	8.2K 0.5% 1/10W
R350	1-216-061-00	RES-CHIP	3.3K 5% 1/10W	R539	1-216-049-11	RES-CHIP	1K 5% 1/10W
R351	1-216-053-00	RES-CHIP	1.5K 5% 1/10W	R540	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R354	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R541	1-216-065-91	RES-CHIP	4.7K 5% 1/10W
R355	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R542	1-216-073-00	RES-CHIP	10K 5% 1/10W
R356	1-216-057-00	RES-CHIP	2.2K 5% 1/10W	R543	1-216-437-00	METAL OXIDE	5.6K 5% 1W
R357	1-216-079-00	RES-CHIP	18K 5% 1/10W	R544	1-215-917-11	METAL OXIDE	1K 5% 3W
R358	1-216-049-11	RES-CHIP	1K 5% 1/10W	R545	1-216-077-91	RES-CHIP	15K 5% 1/10W
R359	1-216-033-00	RES-CHIP	220 5% 1/10W	R546	1-216-077-91	RES-CHIP	15K 5% 1/10W
R360	1-216-033-00	RES-CHIP	220 5% 1/10W	R547	1-216-085-00	RES-CHIP	33K 5% 1/10W
R361	1-216-073-00	RES-CHIP	10K 5% 1/10W	R548	1-208-796-11	METAL CHIP	3.9K 0.5% 1/10W
R362	1-216-075-00	RES-CHIP	12K 5% 1/10W	R549	1-215-452-00	METAL	20K 1% 1/4W
R363	1-216-079-00	RES-CHIP	18K 5% 1/10W	R550	1-216-097-11	RES-CHIP	100K 5% 1/10W
R364	1-216-295-11	SHORT	0	R551	1-249-441-11	CARBON	100K 5% 1/4W
R365	1-216-033-00	RES-CHIP	220 5% 1/10W	R552	1-216-057-00	RES-CHIP	2.2K 5% 1/10W
R366	1-216-073-00	RES-CHIP	10K 5% 1/10W	R553	1-215-453-00	METAL	22K 1% 1/4W
R367	1-216-073-00	RES-CHIP	10K 5% 1/10W	R554	1-215-453-00	METAL	22K 1% 1/4W
R368	1-216-073-00	RES-CHIP	10K 5% 1/10W	R556	1-215-437-00	METAL	4.7K 1% 1/4W
R370	1-216-033-00	RES-CHIP	220 5% 1/10W	R558	1-247-843-11	CARBON	3.3K 5% 1/4W
R371	1-216-083-00	RES-CHIP	27K 5% 1/10W	R559	1-249-429-11	CARBON	10K 5% 1/4W
R372	1-216-091-00	RES-CHIP	56K 5% 1/10W	R560	1-216-073-00	RES-CHIP	10K 5% 1/10W
R375	1-216-025-11	RES-CHIP	100 5% 1/10W	R561	1-216-049-11	RES-CHIP	1K 5% 1/10W
		(KV-XG29M61 ONLY)		R562	1-249-401-11	CARBON	47 5% 1/4W
R376	1-216-081-00	RES-CHIP	22K 5% 1/10W	R564	1-208-820-11	METAL CHIP	39K 0.5% 1/10W
R377	1-216-121-11	RES-CHIP	1M 5% 1/10W	R565	1-216-073-00	RES-CHIP	10K 5% 1/10W
R378	1-216-041-00	RES-CHIP	470 5% 1/10W	R567	1-216-105-91	RES-CHIP	220K 5% 1/10W
R379	1-218-179-11	RES-CHIP	10M 5% 1/10W	R568	1-249-383-11	CARBON	1.5 5% 1/4W
R380	1-216-041-00	RES-CHIP	470 5% 1/10W	R570	1-216-069-00	RES-CHIP	6.8K 5% 1/10W
R383	1-216-049-11	RES-CHIP	1K 5% 1/10W	R571	1-215-443-00	METAL	8.2K 1% 1/4W
R384	1-216-295-11	SHORT	0	R573	1-216-083-00	RES-CHIP	27K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK		
R575	1-208-796-11	METAL CHIP	3.9K	0.5%	1/10W
R577	1-215-913-11	METAL OXIDE	220	5%	3W
R578	1-216-369-00	METAL OXIDE	1	5%	2W
R579	1-216-295-11	SHORT	0		
R580	1-208-830-11	METAL CHIP	100K	0.5%	1/10W
R581	1-208-790-11	METAL CHIP	2.2K	0.5%	1/10W
R582	1-208-842-11	METAL CHIP	330K	0.5%	1/10W
R584	1-208-838-91	METAL CHIP	220K	0.5%	1/10W
R587	1-208-822-11	METAL CHIP	47K	0.5%	1/10W
R588	1-215-888-00	METAL OXIDE	220	5%	2W
R589	1-215-888-00	METAL OXIDE	220	5%	2W
R590	1-215-465-00	METAL	68K	1%	1/4W
R591	1-260-288-11	CARBON	0.47	5%	1/2W
R592	1-208-820-11	METAL CHIP	39K	0.5%	1/10W
R593	1-260-288-11	CARBON	0.47	5%	1/2W
R594	1-260-288-11	CARBON	0.47	5%	1/2W
R595	1-216-073-00	RES-CHIP	10K	5%	1/10W
R596	1-215-916-00	METAL OXIDE	680	5%	3W
R597	1-247-750-11	CARBON	680	5%	1/2W
R598	1-249-438-11	CARBON	56K	5%	1/4W
R599	1-249-389-11	CARBON	4.7	5%	1/4W
R600	1-249-438-11	CARBON	56K	5%	1/4W
R601	1-249-420-11	CARBON	1.8K	5%	1/4W
R602	1-249-389-11	CARBON	4.7	5%	1/4W
R603	1-215-485-00	METAL	470K	1%	1/4W
R604	1-216-097-11	RES-CHIP	100K	5%	1/10W
R607	1-249-425-11	CARBON	4.7K	5%	1/4W
R608	1-240-205-91	CARBON	22M	5%	1/2W
R609	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R610	1-216-073-00	RES-CHIP	10K	5%	1/10W
R611	1-216-089-11	RES-CHIP	47K	5%	1/10W
R612	1-216-045-00	RES-CHIP	680	5%	1/10W
R614	1-216-041-00	RES-CHIP	470	5%	1/10W
R615	1-216-369-00	METAL OXIDE	1	5%	2W
R616	1-260-302-51	CARBON	6.8	5%	1/2W
R617	1-247-791-91	CARBON	22	5%	1/4W
R619	1-260-128-11	CARBON	270K	5%	1/2W
R620	1-129-720-00	FILM	0.033UF	5.00%	630V
R621	1-215-864-00	METAL OXIDE	150	5%	1W
R623	1-216-095-00	RES-CHIP	82K	5%	1/10W
R624	1-216-089-11	RES-CHIP	47K	5%	1/10W
R626	1-216-049-11	RES-CHIP	1K	5%	1/10W
R627	1-240-251-11	CMT-MELF	6.8	5%	10W
R629	1-247-747-11	CARBON	470	5%	1/2W
R630	1-249-429-11	CARBON	10K	5%	1/4W
R631	1-216-089-11	RES-CHIP	47K	5%	1/10W
R632	1-220-886-11	FUSIBLE	0.1	10%	1W
R634	\triangle 1-218-265-11	METAL	8.2M	5%	1W
R635	1-216-492-21	METAL OXIDE	82K	5%	3W
R636	1-215-924-00	METAL OXIDE	15K	5%	3W
R637	1-216-492-21	METAL OXIDE	82K	5%	3W
R639	1-216-361-21	METAL OXIDE	0.22	5%	2W
R640	1-249-415-11	CARBON	680	5%	1/4W
R641	1-216-361-21	METAL OXIDE	0.22	5%	2W
R642	1-249-419-11	CARBON	1.5K	5%	1/4W
R643	1-247-843-11	CARBON	3.3K	5%	1/4W
R644	1-249-419-11	CARBON	1.5K	5%	1/4W
R646	1-215-924-00	METAL OXIDE	15K	5%	3W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R647	1-249-387-11	CARBON	3.3	5%	1/4W
R648	1-216-057-00	RES-CHIP	2.2K	5%	1/10W
R649	1-249-417-11	CARBON	1K	5%	1/4W
R650	1-215-882-00	METAL OXIDE	22	5%	2W
R652	1-215-900-11	METAL OXIDE	22K	5%	2W
R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W
R656	1-249-417-11	CARBON	1K	5%	1/4W
R657	1-260-127-11	CARBON	220K	5%	1/2W
R659	1-216-049-11	RES-CHIP	1K	5%	1/10W
R660	1-216-073-00	RES-CHIP	10K	5%	1/10W
R661	1-215-873-00	METAL OXIDE	4.7K	5%	1W
R682	1-249-377-11	CARBON	0.47	5%	1/4W
R901	1-249-411-11	CARBON	330	5%	1/4W
R902	1-249-411-11	CARBON	330	5%	1/4W
R909	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
R910	1-216-065-91	RES-CHIP	4.7K	5%	1/10W
<RELAY>					
RY600	△ 1-755-214-11	RELAY, AC POWER			
RY601	△ 1-755-214-11	RELAY, AC POWER			
<SWITCH>					
S501	1-572-707-11	SWITCH, LEVER			
S502	1-572-707-11	SWITCH, LEVER			
<TRANSFORMER>					
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE			
T503	△ 1-453-297-21	TRANSFORMER ASSY FLYBACK NX-4009//M314 (KV-XG29M30)			
T503	△ 1-453-288-11	TRANSFORMER ASSY FLYBACK NX-4009//C614 (KV-XG29M61/XG29M80)			
T504	1-431-693-11	TRANSFORMER, HORIZONTAL LINEAR			
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)			
T601	△ 1-433-743-11	TRANSFORMER, LINE FILTER			
T603	△ 1-435-147-11	TRANSFORMER, CONVERTER (SRT)			
T604	△ 1-431-852-11	TRANSFORMER, CONVERTER (SRT)			
<THERMISTOR>					
TH600	1-803-586-11	THERMISTOR, NTC			
<THERMISTOR>					
THP600	1-803-540-11	THERMISTOR			
<TUNER>					
TU101	8-598-451-20	TUNER, FSS BTF-WG441 (KV-XG29M30)			
TU101	8-598-451-30	TUNER, FSS BTF-WG441 (KV-XG29M61)			
TU101	8-598-449-10	TUNER, FSS BTF-LG433 (KV-XG29M80)			
<VARISTOR>					
VDR600	1-803-830-11	VARISTOR (ERZV14D621)			

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A **B6**

REF. NO.	PART NO.	DESCRIPTION	REMARK	
<CRYSTAL>				
X001	1-579-125-11	VIBRATOR, CERAMIC		
X301	1-781-134-21	VIBRATOR, CRYSTAL		
X302	1-781-132-21	VIBRATOR, CRYSTAL		

* A-1136-179-A	B6 BOARD COMPLETE (KV-XG29M30)			
* A-1136-188-A	B6 BOARD COMPLETE (KV-XG29M61)			
* A-1136-182-A	B6 BOARD COMPLETE (KV-XG29M80)			

1-533-223-11	CLIP, FUSE			
<CAPACITOR>				
C8227	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
C8228	1-163-024-00	CERAMIC CHIP	0.018UF	10.00% 50V
C8229	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00% 50V
C8230	1-163-024-00	CERAMIC CHIP	0.018UF	10.00% 50V
C8231	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00% 50V
C8232	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
C8233	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8234	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8235	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8236	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8238	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C8240	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C8241	1-164-346-11	CERAMIC CHIP	1UF	16V
C8242	1-164-505-11	CERAMIC CHIP	2.2UF	16V
C8243	1-164-346-11	CERAMIC CHIP	1UF	16V
C8244	1-164-700-11	CERAMIC CHIP	0.68UF	16V
C8245	1-164-346-11	CERAMIC CHIP	1UF	16V
C8246	1-163-018-00	CERAMIC CHIP	0.0056UF	10.00% 50V
C8247	1-164-346-11	CERAMIC CHIP	1UF	16V
C8248	1-163-010-11	CERAMIC CHIP	0.0012UF	10.00% 50V
C8249	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8250	1-164-346-11	CERAMIC CHIP	1UF	16V
C8251	1-163-017-00	CERAMIC CHIP	0.0047UF	10.00% 50V
C8252	1-164-346-11	CERAMIC CHIP	1UF	16V
C8253	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
C8254	1-126-965-11	ELECT	22UF	20.00% 50V
C8255	1-163-037-11	CERAMIC CHIP	0.022UF	10.00% 50V
C8258	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8259	1-126-933-11	ELECT	100UF	20.00% 16V
C8260	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C8261	1-163-251-11	CERAMIC CHIP	100PF	5.00% 50V
C8263	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8301	1-126-933-11	ELECT	100UF	20.00% 16V
C8304	1-126-967-11	ELECT	47UF	20.00% 50V
C8305	1-164-004-11	CERAMIC CHIP	0.1UF	10.00% 25V
C8333	1-126-964-11	ELECT	10UF	20.00% 50V
C8401	1-164-346-11	CERAMIC CHIP	1UF	16V
C8402	1-164-346-11	CERAMIC CHIP	1UF	16V
C8403	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V
C8404	1-163-005-11	CERAMIC CHIP	470PF	10.00% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK	
C8405	1-126-935-11	ELECT	470UF	20.00% 16V
C8406	1-164-346-11	CERAMIC CHIP	1UF	16V
C8407	1-164-346-11	CERAMIC CHIP	1UF	16V
C8408	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C8409	1-126-933-11	ELECT	100UF	20.00% 16V
C8410	1-164-346-11	CERAMIC CHIP	1UF	16V
C8411	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C8412	1-164-346-11	CERAMIC CHIP	1UF	16V
C8413	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C8414	1-126-963-11	ELECT	4.7UF	20.00% 50V
C8415	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C8416	1-164-346-11	CERAMIC CHIP	1UF	16V
C8417	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C8418	1-164-346-11	CERAMIC CHIP	1UF	16V
C8419	1-163-133-00	CERAMIC CHIP	470PF	5.00% 50V
C8601 \triangle	1-104-708-11	MYLAR	0.47UF	20.00% 250V
C8602 \triangle	1-109-835-11	MYLAR	0.68UF	20.00% 250V
C8654 \triangle	1-117-703-11	CERAMIC	0.0047UF	99% 250V
<CONNECTOR>				
CN8401	1-564-509-11	PLUG, CONNECTOR 6P		
CN8402*	1-764-333-11	PLUG, CONNECTOR 10P		
CN8403*	1-564-510-11	PLUG, CONNECTOR 7P		
CN8601	1-580-843-11	PIN, CONNECTOR (POWER)		
CN8602	1-580-843-11	PIN, CONNECTOR (POWER)		
CN8603	1-695-915-11	TAB (CONTACT)		
<DIODE>				
D8300	8-719-158-35	RD9.1S-B		
D8401	8-719-158-35	RD9.1S-B		
D8402	8-719-158-35	RD9.1S-B		
D8403	8-719-158-35	RD9.1S-B		
D8404	8-719-158-35	RD9.1S-B		
D8405	8-719-158-35	RD9.1S-B		
D8406	8-719-158-35	RD9.1S-B		
D8407	8-719-158-35	RD9.1S-B		
D8408	8-719-158-35	RD9.1S-B		
D8409	8-719-158-35	RD9.1S-B		
D8410	8-719-158-35	RD9.1S-B		
D8411	8-719-158-35	RD9.1S-B		
D8412	8-719-914-42	DA204K		
D8413	8-719-158-35	RD9.1S-B		
<FUSE>				
F8601 \triangle	1-532-299-00	FUSE, TIME-LAG 5A/250V		
<IC>				
IC8203	8-759-553-40	TDA7429S		
IC8204	8-759-100-96	UPC4558G2		
<JACK>				
J8402	1-778-388-11	JACK BLOCK, PIN 9P		

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C6

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CHIP CONDUCTOR>			
JR8206	1-216-295-11	SHORT 0	
JR8401	1-216-295-11	SHORT 0	
<COIL>			
L8204	1-414-856-11	INDUCTOR 10UH	
L8301	1-414-189-31	INDUCTOR 100UH	
<TRANSISTOR>			
Q8309	8-729-120-28	2SC1623-L5L6	
Q8310	8-729-120-28	2SC1623-L5L6	
Q8401	8-729-424-67	UN2216	
Q8402	8-729-424-67	UN2216	
Q8403	8-729-216-22	2SA1162-G	
Q8404	8-729-216-22	2SA1162-G	
<RESISTOR>			
R8215	1-216-059-00	RES-CHIP 2.7K 5%	1/10W
R8216	1-216-059-00	RES-CHIP 2.7K 5%	1/10W
R8217	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
R8218	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
R8219	1-216-025-11	RES-CHIP 100 5%	1/10W
R8220	1-216-025-11	RES-CHIP 100 5%	1/10W
R8221	1-216-689-11	RES-CHIP 39K 5%	1/10W
R8222	1-216-689-11	RES-CHIP 39K 5%	1/10W
R8223	1-216-063-91	RES-CHIP 3.9K 5%	1/10W
R8224	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8225	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
R8226	1-216-069-00	RES-CHIP 6.8K 5%	1/10W
R8238	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
R8239	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
R8240	1-216-689-11	RES-CHIP 39K 5%	1/10W
R8241	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
R8242	1-216-067-00	RES-CHIP 5.6K 5%	1/10W
R8243	1-216-689-11	RES-CHIP 39K 5%	1/10W
R8334	1-216-022-00	RES-CHIP 75 5%	1/10W
R8335	1-216-033-00	RES-CHIP 220 5%	1/10W
R8336	1-216-041-00	RES-CHIP 470 5%	1/10W
R8337	1-216-045-00	RES-CHIP 680 5%	1/10W
R8339	1-216-057-00	RES-CHIP 2.2K 5%	1/10W
R8341	1-216-045-00	RES-CHIP 680 5%	1/10W
R8342	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8343	1-216-063-91	RES-CHIP 3.9K 5%	1/10W
R8344	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8401	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8402	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8403	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8404	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8405	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8406	1-216-073-00	RES-CHIP 10K 5%	1/10W
R8407	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8408	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8409	1-216-041-00	RES-CHIP 470 5%	1/10W
R8410	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8411	1-216-113-00	RES-CHIP 470K 5%	1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R8412	1-216-041-00	RES-CHIP 470 5%	1/10W
R8413	1-216-021-00	RES-CHIP 68 5%	1/10W
R8414	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8415	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8416	1-216-089-11	RES-CHIP 47K 5%	1/10W
R8417	1-216-089-11	RES-CHIP 47K 5%	1/10W
R8418	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8419	1-216-022-00	RES-CHIP 75 5%	1/10W
R8420	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8421	1-216-077-91	RES-CHIP 15K 5%	1/10W
R8422	1-216-077-91	RES-CHIP 15K 5%	1/10W
R8423	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8424	1-216-022-00	RES-CHIP 75 5%	1/10W
R8425	1-216-033-00	RES-CHIP 220 5%	1/10W
R8426	1-216-033-00	RES-CHIP 220 5%	1/10W
R8427	1-216-089-11	RES-CHIP 47K 5%	1/10W
R8428	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8429	1-216-089-11	RES-CHIP 47K 5%	1/10W
R8430	1-216-113-00	RES-CHIP 470K 5%	1/10W
R8579	1-216-049-11	RES-CHIP 1K 5%	1/10W
R8601 \triangle	1-202-719-00	SOLID 1M 20%	1/2W
<TRANSFORMER>			
T8601 \triangle	1-433-743-11	TRANSFORMER, LINE FILTER	
T8602	1-431-182-11	TRANSFORMER, LINE FILTER	

* A-1332-149-A C6 BOARD MOUNTED *****			
4-352-844-01		PIN, LEAD, COATING	
4-382-854-11		SCREW (M3X10), P, SW (+)	
<CAPACITOR>			
C701	1-162-114-00	CERAMIC 0.0047UF	2KV
C702	1-102-074-00	CERAMIC 0.001UF	10.00% 50V
C708	1-102-114-00	CERAMIC 470PF	10.00% 50V
C709	1-102-114-00	CERAMIC 470PF	10.00% 50V
C710	1-102-114-00	CERAMIC 470PF	10.00% 50V
C712	1-102-115-00	CERAMIC 560PF	10.00% 50V
C713	1-102-112-00	CERAMIC 330PF	10.00% 50V
C714	1-102-112-00	CERAMIC 330PF	10.00% 50V
C716	1-126-933-11	ELECT 100UF	20.00% 16V
C717	1-107-651-11	ELECT 4.7UF	20.00% 250V
C718	1-102-106-00	CERAMIC 100PF	10.00% 50V
C1800	1-126-964-11	ELECT 10UF	20.00% 50V
C1803	1-126-964-11	ELECT 10UF	20.00% 50V
C1804	1-126-964-11	ELECT 10UF	20.00% 50V
C1809	1-126-942-61	ELECT 1000UF	20.00% 25V
C1810	1-102-106-00	CERAMIC 100PF	10.00% 50V
<CONNECTOR>			
CN700	1-695-915-11	TAB (CONTACT)	
CN702	1-695-915-11	TAB (CONTACT)	

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

C6

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CN703	1-564-509-11	PLUG, CONNECTOR 6P				<RESISTOR>	
CN704	1-695-915-11	TAB (CONTACT)		R701	1-249-496-11	CARBON 100K	5% 1/2W
CN712	1-564-507-11	PLUG, CONNECTOR 4P		R705	1-216-392-11	METAL OXIDE 1.8	5% 3W
CN1801 *	1-564-509-11	PLUG, CONNECTOR 6P		R710	1-215-923-00	METAL OXIDE 10K	5% 3W
CN1802	1-564-506-11	PLUG, CONNECTOR 3P		R711	1-260-328-11	CARBON 1K	5% 1/2W
		<DIODE>		R712	1-215-923-00	METAL OXIDE 10K	5% 3W
D701	8-719-911-19	1SS119-25		R713	1-260-330-11	CARBON 1.5K	5% 1/2W
D702	8-719-911-19	1SS119-25		R714	1-215-923-00	METAL OXIDE 10K	5% 3W
D703	8-719-911-19	1SS119-25		R715	1-260-330-11	CARBON 1.5K	5% 1/2W
D704	8-719-911-19	1SS119-25		R716	1-249-405-11	CARBON 100	5% 1/4W
D705	8-719-911-19	1SS119-25		R717	1-249-405-11	CARBON 100	5% 1/4W
D706	8-719-911-19	1SS119-25		R718	1-249-405-11	CARBON 100	5% 1/4W
D707	8-719-911-19	1SS119-25		R719	1-215-469-00	METAL 100K	1% 1/4W
D708	8-719-911-19	1SS119-25		R720	1-249-923-11	CARBON 1K	5% 1/4W
D709	8-719-911-19	1SS119-25		R722	1-249-923-11	CARBON 1K	5% 1/4W
D710	8-719-911-19	1SS119-25		R723	1-215-469-00	METAL 100K	1% 1/4W
D711	8-719-911-19	1SS119-25		R724	1-249-923-11	CARBON 1K	5% 1/4W
D712	8-719-911-19	1SS119-25		R725	1-249-424-11	CARBON 3.9K	5% 1/4W
D716	8-719-911-19	1SS119-25		R726	1-249-424-11	CARBON 3.9K	5% 1/4W
D717	8-719-070-16	NNCD9.1A-T1		R727	1-249-424-11	CARBON 3.9K	5% 1/4W
D1803	8-719-911-19	1SS119-25		R728	1-249-408-11	CARBON 180	5% 1/4W
D1804	8-719-911-19	1SS119-25		R729	1-249-408-11	CARBON 180	5% 1/4W
D1808	8-719-908-03	GP08D		R730	1-249-408-11	CARBON 180	5% 1/4W
		<IC>		R731	1-249-401-11	CARBON 47	5% 1/4W
IC1800	8-759-822-38	LA6510		R732	1-249-401-11	CARBON 47	5% 1/4W
		<JACK>		R733	1-249-401-11	CARBON 47	5% 1/4W
J701 \triangle	1-540-071-22	SOCKET, CRT		R734	1-247-739-11	CARBON 100	5% 1/2W
		<COIL>		R738	1-247-807-31	CARBON 100	5% 1/4W
L701	1-410-667-31	INDUCTOR 22UH		R739	1-247-807-31	CARBON 100	5% 1/4W
L703	1-414-186-31	INDUCTOR 33UH		R740	1-247-807-31	CARBON 100	5% 1/4W
L705	1-414-186-31	INDUCTOR 33UH		R747	1-215-926-00	METAL OXIDE 33K	5% 3W
L707	1-414-187-11	INDUCTOR 47UH		R749	1-215-927-00	METAL OXIDE 47K	5% 3W
		<TRANSISTOR>		R751	1-215-926-00	METAL OXIDE 33K	5% 3W
Q701	8-729-326-11	2SC2611		R753	1-249-429-11	CARBON 10K	5% 1/4W
Q702	8-729-326-11	2SC2611		R755	1-249-427-11	CARBON 6.8K	5% 1/4W
Q703	8-729-326-11	2SC2611		R756	1-249-427-11	CARBON 6.8K	5% 1/4W
Q704	8-729-326-11	2SC2611		R757	1-249-427-11	CARBON 6.8K	5% 1/4W
Q705	8-729-326-11	2SC2611		R758	1-249-419-11	CARBON 1.5K	5% 1/4W
Q706	8-729-326-11	2SC2611		R759	1-249-419-11	CARBON 1.5K	5% 1/4W
Q707	8-729-200-17	2SA1091-O		R760	1-249-419-11	CARBON 1.5K	5% 1/4W
Q708	8-729-200-17	2SA1091-O		R1800	1-249-417-11	CARBON 1K	5% 1/4W
Q709	8-729-200-17	2SA1091-O		R1801	1-249-426-11	CARBON 5.6K	5% 1/4W
Q710	8-729-119-78	2SC2785-HFE		R1802	1-249-382-11	CARBON 1.2	5% 1/4W
Q711	8-729-119-78	2SC2785-HFE		R1803	1-249-382-11	CARBON 1.2	5% 1/4W
Q712	8-729-119-78	2SC2785-HFE		R1805	1-249-429-11	CARBON 10K	5% 1/4W
Q714	8-729-255-12	2SC2551-O		R1806	1-249-425-11	CARBON 4.7K	5% 1/4W
Q1800	8-729-119-76	2SA1175-HFE		R1808	1-249-425-11	CARBON 4.7K	5% 1/4W
Q1802	8-729-119-78	2SC2785-HFE		R1809	1-249-435-11	CARBON 33K	5% 1/4W
				R1810	1-249-435-11	CARBON 33K	5% 1/4W
				R1811	1-249-433-11	CARBON 22K	5% 1/4W
				R1812	1-249-435-11	CARBON 33K	5% 1/4W
				R1821	1-249-433-11	CARBON 22K	5% 1/4W
				R1822	1-249-435-11	CARBON 33K	5% 1/4W
				R1823	1-249-426-11	CARBON 5.6K	5% 1/4W
				R1824	1-249-435-11	CARBON 33K	5% 1/4W
				R1825	1-247-843-11	CARBON 3.3K	5% 1/4W



Table with 4 columns: REF. NO., PART NO., DESCRIPTION, REMARK. Rows include variable resistors (RV702, RV1801), capacitors (C2800-C2813), connectors (CN2800-CN2803), diodes (D2800-D2803), ICs (IC2800-IC2801), coils (L2800-L2804), transistors (Q2800-Q2804), and board mounting information.

Table with 4 columns: REF. NO., PART NO., DESCRIPTION, REMARK. Rows include resistors (R2800-R2817), transformer (T2800), capacitors (C2910-C2912), connectors (CN2601-CN2905), diodes (D2905-D2908), and ICs (IC2901-IC2902).

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

H2 **V1**

REF. NO.	PART NO.	DESCRIPTION	REMARK			REF. NO.	PART NO.	DESCRIPTION	REMARK		
		<JACK>									
J2901	1-770-786-11	JACK				C829	1-163-113-00	CERAMIC CHIP	68PF	5.00%	50V
J2903	1-770-329-11	JACK, PIN 3P				C830	1-163-038-11	CERAMIC CHIP	0.1UF		25V
		<TRANSISTOR>									
Q2901	8-729-030-02	DTC144ESA				C831	1-126-933-11	ELECT	100UF	20.00%	16V
Q2902	8-729-030-02	DTC144ESA				C832	1-126-964-11	ELECT	10UF	20.00%	50V
		<RESISTOR>				C835	1-163-038-11	CERAMIC CHIP	0.1UF		25V
R2907	1-249-426-11	CARBON	5.6K	5%	1/4W	C837	1-126-933-11	ELECT	100UF	20.00%	16V
R2908	1-249-413-11	CARBON	470	5%	1/4W			<CONNECTOR>			
R2909	1-249-417-11	CARBON	1K	5%	1/4W	CN801	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P			
R2910	1-249-420-11	CARBON	1.8K	5%	1/4W	CN803	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P			
R2911	1-249-411-11	CARBON	330	5%	1/4W			<DIODE>			
R2912	1-247-843-11	CARBON	3.3K	5%	1/4W	D802	8-719-914-44	DAP202K			
R2913	1-249-429-11	CARBON	10K	5%	1/4W	D803	8-719-105-46	RD3.3M-B2			
R2914	1-249-411-11	CARBON	330	5%	1/4W	D804	8-719-105-91	RD5.6M-B2			
R2915	1-249-429-11	CARBON	10K	5%	1/4W	D806	8-719-988-61	1SS355TE-17			
R2916	1-249-401-11	CARBON	47	5%	1/4W	D807	8-719-988-61	1SS355TE-17			
R2920	1-247-807-31	CARBON	100	5%	1/4W			<FERRITE BEAD>			
R2921	1-247-807-31	CARBON	100	5%	1/4W	FB801	1-410-397-21	FERRITE	1.1UH		
		<SWITCH>				FB802	1-410-397-21	FERRITE	1.1UH		
S2601 \triangle	1-571-433-21	SWITCH, PUSH (AC POWER)				FB803	1-410-397-21	FERRITE	1.1UH		
S2902	1-692-431-21	SWITCH, TACTILE				FB804	1-410-682-31	INDUCTOR	470UH		
S2903	1-692-431-21	SWITCH, TACTILE				FB805	1-410-397-21	FERRITE	1.1UH		
S2904	1-692-431-21	SWITCH, TACTILE						<IC>			
S2905	1-692-431-21	SWITCH, TACTILE				IC801	8-759-476-87	SAA5261			
S2906	1-692-431-21	SWITCH, TACTILE						<CHIP CONDUCTOR>			
S2907	1-692-431-21	SWITCH, TACTILE				JR801	1-216-295-11	SHORT	0		
S2908	1-692-431-21	SWITCH, TACTILE				JR802	1-216-295-11	SHORT	0		
*****						JR804	1-216-295-11	SHORT	0		
* A-1347-173-A V1 BOARD COMPLETE (KV-XG29M61 ONLY)						JR805	1-216-295-11	SHORT	0		
*****						JR806	1-216-295-11	SHORT	0		
						JR807	1-216-295-11	SHORT	0		
						JR808	1-216-295-11	SHORT	0		
		<CAPACITOR>						<TRANSISTOR>			
C801	1-104-664-11	ELECT	47UF	20.00%	16V	Q801	8-729-120-28	2SC1623-L5L6			
C805	1-163-038-11	CERAMIC CHIP	0.1UF		25V	Q803	8-729-120-28	2SC1623-L5L6			
C806	1-163-038-11	CERAMIC CHIP	0.1UF		25V	Q805	8-729-120-28	2SC1623-L5L6			
C814	1-163-021-91	CERAMIC CHIP	0.01UF	10.00%	50V	Q806	8-729-120-28	2SC1623-L5L6			
C815	1-163-251-11	CERAMIC CHIP	100PF	5.00%	50V	Q807	8-729-120-28	2SC1623-L5L6			
C816	1-164-505-11	CERAMIC CHIP	2.2UF		16V	Q808	8-729-120-28	2SC1623-L5L6			
C817	1-164-004-11	CERAMIC CHIP	0.1UF	10.00%	25V	Q810	8-729-120-28	2SC1623-L5L6			
C818	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V	Q811	8-729-019-01	2SD2394-EF			
C820	1-163-239-11	CERAMIC CHIP	33PF	5.00%	50V	Q812	8-729-120-28	2SC1623-L5L6			
C821	1-163-038-11	CERAMIC CHIP	0.1UF		25V	Q813	8-729-120-28	2SC1623-L5L6			
C822	1-163-009-11	CERAMIC CHIP	0.001UF	10.00%	50V	Q814	8-729-120-28	2SC1623-L5L6			
C823	1-126-933-11	ELECT	100UF	20.00%	16V	Q817	8-729-900-532	DTC114EK			
C826	1-126-963-11	ELECT	4.7UF	20.00%	50V	Q818	8-729-120-28	2SC1623-L5L6			



REF. NO.	PART NO.	DESCRIPTION	REMARK
<RESISTOR>			
R800	1-208-806-11	METAL CHIP 10K	0.5% 1/10W
R801	1-216-295-11	SHORT 0	
R802	1-216-025-11	RES-CHIP 100	5% 1/10W
R803	1-216-295-11	SHORT 0	
R804	1-216-295-11	SHORT 0	
R805	1-216-295-11	SHORT 0	
R807	1-216-295-11	SHORT 0	
R813	1-216-295-11	SHORT 0	
R820	1-216-073-00	RES-CHIP 10K	5% 1/10W
R821	1-216-083-00	RES-CHIP 27K	5% 1/10W
R822	1-216-025-11	RES-CHIP 100	5% 1/10W
R824	1-216-295-11	SHORT 0	
R825	1-216-295-11	SHORT 0	
R827	1-216-295-11	SHORT 0	
R828	1-216-025-11	RES-CHIP 100	5% 1/10W
R829	1-216-025-11	RES-CHIP 100	5% 1/10W
R830	1-216-295-11	SHORT 0	
R831	1-216-295-11	SHORT 0	
R832	1-208-790-11	METAL CHIP 2.2K	0.5% 1/10W
R835	1-216-295-11	SHORT 0	
R839	1-216-655-11	METAL CHIP 1.5K	0.5% 1/10W
R841	1-216-025-11	RES-CHIP 100	5% 1/10W
R842	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R843	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R844	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R845	1-216-049-11	RES-CHIP 1K	5% 1/10W
R846	1-216-049-11	RES-CHIP 1K	5% 1/10W
R847	1-216-049-11	RES-CHIP 1K	5% 1/10W
R848	1-216-049-11	RES-CHIP 1K	5% 1/10W
R849	1-216-049-11	RES-CHIP 1K	5% 1/10W
R850	1-216-105-91	RES-CHIP 220K	5% 1/10W
R851	1-216-057-00	RES-CHIP 2.2K	5% 1/10W
R853	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
R857	1-216-081-00	RES-CHIP 22K	5% 1/10W
R858	1-216-067-00	RES-CHIP 5.6K	5% 1/10W
R861	1-216-049-11	RES-CHIP 1K	5% 1/10W
R862	1-260-095-11	CARBON 470	5% 1/2W
R863	1-216-049-11	RES-CHIP 1K	5% 1/10W
R864	1-216-041-00	RES-CHIP 470	5% 1/10W
R866	1-215-880-00	METAL OXIDE 10	5% 2W
R871	1-216-037-00	RES-CHIP 330	5% 1/10W
R879	1-216-073-00	RES-CHIP 10K	5% 1/10W
R880	1-216-041-00	RES-CHIP 470	5% 1/10W
R882	1-216-049-11	RES-CHIP 1K	5% 1/10W
R884	1-216-025-11	RES-CHIP 100	5% 1/10W
R888	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R889	1-216-073-00	RES-CHIP 10K	5% 1/10W
R890	1-216-081-00	RES-CHIP 22K	5% 1/10W
R894	1-216-073-00	RES-CHIP 10K	5% 1/10W
R895	1-216-065-91	RES-CHIP 4.7K	5% 1/10W
R896	1-216-073-00	RES-CHIP 10K	5% 1/10W
R897	1-216-073-00	RES-CHIP 10K	5% 1/10W
R898	1-216-065-91	RES-CHIP 4.7K	5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
<CRYSTAL>			
X801	1-578-774-11	VIBRATOR, CRYSTAL	

	* A-1342-594-A	VM1 BOARD MOUNTED	

	4-382-854-11	SCREW (M3X10), P, SW (+)	
<CAPACITOR>			
C5902	1-104-661-91	ELECT 330UF	20.00% 16V
C5903	1-161-830-00	CERAMIC 0.0047UF	500V
C5905	1-126-935-11	ELECT 470UF	20.00% 10V
C5906	1-130-491-00	MYLAR 0.047UF	5.00% 50V
C5907	1-107-638-11	ELECT 33UF	20.00% 160V
C5908	1-106-383-00	MYLAR 0.047UF	10.00% 200V
C5909	1-126-933-11	ELECT 100UF	20.00% 16V
C5910	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C5911	1-107-949-11	ELECT 2.2UF	20.00% 160V
C5912	1-104-999-11	MYLAR 0.1UF	10.00% 200V
C5913	1-130-471-00	MYLAR 0.001UF	5.00% 50V
C5914	1-126-933-11	ELECT 100UF	20.00% 16V
C5916	1-130-491-00	MYLAR 0.047UF	5.00% 50V
C5917	1-126-935-11	ELECT 470UF	20.00% 10V
C5918	1-115-341-51	CERAMIC 120PF	10.00% 500V
C5920	1-126-964-11	ELECT 10UF	20.00% 50V
C5921	1-102-852-91	CERAMIC 47PF	5.00% 50V
<CONNECTOR>			
CN2801	1-564-506-11	PLUG, CONNECTOR 3P	
CN5901*	1-564-510-11	PLUG, CONNECTOR 7P	
CN5904*	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
<DIODE>			
D5901	8-719-911-19	1SS119-25	
D5902	8-719-110-88	RD39ES-B2	
D5903	8-719-911-19	1SS119-25	
D5904	8-719-110-88	RD39ES-B2	
D5905	8-719-911-19	1SS119-25	
D5906	1-249-406-11	CARBON 120	5% 1/4W
D5907	1-249-406-11	CARBON 120	5% 1/4W
<COIL>			
L5901	1-414-187-11	INDUCTOR 47UH	
L5902	1-414-856-11	INDUCTOR 10UH	
<TRANSISTOR>			
Q5901	8-729-230-45	2SC2458-YGR	
Q5902	8-729-809-26	2SA1606-E	

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

VM₁

REF. NO.	PART NO.	DESCRIPTION	REMARK		
Q5903	8-729-230-45	2SC2458-YGR			
Q5904	8-729-119-76	2SA1175-HFE			
Q5905	8-729-230-45	2SC2458-YGR			
Q5906	8-729-809-29	2SC4159-E			
Q5908	8-729-119-78	2SC2785-HFE			
Q5909	8-729-119-78	2SC2785-HFE			
<RESISTOR>					
R5901	1-249-409-11	CARBON	220	5%	1/4W
R5902	1-249-414-11	CARBON	560	5%	1/4W
R5903	1-247-734-11	CARBON	39	5%	1/2W
R5904	1-249-411-11	CARBON	330	5%	1/4W
R5905	1-249-417-11	CARBON	1K	5%	1/4W
R5906	1-249-417-11	CARBON	1K	5%	1/4W
R5907	1-249-417-11	CARBON	1K	5%	1/4W
R5908	1-249-383-11	CARBON	1.5	5%	1/4W
R5909	1-249-409-11	CARBON	220	5%	1/4W
R5910	1-249-403-11	CARBON	68	5%	1/4W
R5911	1-249-439-11	CARBON	68K	5%	1/4W
R5912	1-249-437-11	CARBON	47K	5%	1/4W
R5914	1-249-403-11	CARBON	68	5%	1/4W
R5915	1-249-429-11	CARBON	10K	5%	1/4W
R5916	1-249-419-11	CARBON	1.5K	5%	1/4W
R5917	1-249-416-11	CARBON	820	5%	1/4W
R5918	1-249-429-11	CARBON	10K	5%	1/4W
R5919	1-249-417-11	CARBON	1K	5%	1/4W
R5920	1-249-439-11	CARBON	68K	5%	1/4W
R5921	1-216-476-11	METAL OXIDE	180	5%	3W
R5922	1-249-414-11	CARBON	560	5%	1/4W
R5923	1-249-383-11	CARBON	1.5	5%	1/4W
R5925	1-249-400-11	CARBON	39	5%	1/4W
R5929	1-215-880-00	METAL OXIDE	10	5%	2W
R5930	1-249-413-11	CARBON	470	5%	1/4W
R5931	1-249-413-11	CARBON	470	5%	1/4W
R5932	1-249-413-11	CARBON	470	5%	1/4W
R5933	1-249-413-11	CARBON	470	5%	1/4W
R5934	1-249-430-11	CARBON	12K	5%	1/4W
R5935	1-249-429-11	CARBON	10K	5%	1/4W

MISCELLANEOUS

\triangle 1-251-715-82	CAP ASSY, HIGH-VOLTAGE
\triangle 1-419-323-11	COIL, DEGAUSSING (KV-XG29M30)
\triangle 1-419-294-21	COIL, DEGAUSSING (KV-XG29M61/XG29M80)
1-452-094-00	CIRCULAR DISC MAGNET B
1-452-032-00	MAGNET, DISC
1-452-896-11	COIL, NA ROTATION (RT200)
\triangle 1-574-358-11	CORD, POWER (WITH CONNECTOR) 7.5A/250V (KV-XG29M30)
\triangle 1-574-062-11	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-XG29M61/XG29M80)
\triangle 1-574-062-11	CORD, CONNECTOR WITH POWER (KV-XG29M80)

REF. NO.	PART NO.	DESCRIPTION	REMARK
	1-529-563-21	SPEAKER (13X7CM)	
	1-569-008-21	ADAPTOR, CONVERSION 2P (KV-XG29M80)	
	8-453-011-11	NA299-M	
	8-453-011-41	NA299-C	
\triangle 8-735-057-05	PICTURE TUBE /M68LNH070X (KV-XG29M30/XG29M80)		
\triangle 8-735-056-05	PICTURE TUBE /M68LNH070X (KV-XG29M61)		
\triangle 8-451-494-31	DEFLECTION YOKE (Y29RSA-S)		

ACCESSORIES AND PACKING MATERIALS

3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)
* 4-029-168-01	BAG, PROTECTION
* 4-067-139-04	CUSHION (UPPER) (ASSY)
* 4-067-140-02	CUSHION (LOWER) (ASSY)
4-074-287-01	JOINT
* 4-080-655-01	INDIVIDUAL CARTON
* 4-080-656-01	TRAY
4-080-657-21	MANUAL INSTRUCTION (EXCEPT KV-XG29M80)
4-080-657-11	MANUAL INSTRUCTION (KV-XG29M80)
4-392-003-11	BAND, HOLD
4-392-004-11	CLIP

REMOTE COMMANDER

1-418-163-12	REMOTE COMMANDER (RM-952)
9-939-697-01	BATTERY COVER REMOTE COMMANDER